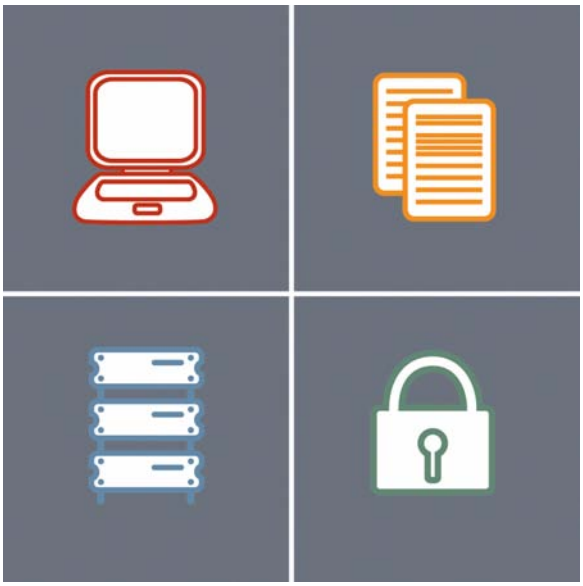

Wise Package Studio® Getting Started Guide

altiris®

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Wise Package Studio®, version 7.0 SP3

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Preface

This chapter includes the following topics:

- *Product Documentation* on page 5
- *Technical Support Resources* on page 6

Product Documentation

This documentation assumes that you are proficient in the use of the Windows operating system. If you need help using the operating system, consult its user documentation.

Use the following sources of information to learn this product.

Online Help

The online help contains detailed technical information and step-by-step instructions for performing common tasks.

Access help in the following ways:

- To display context-sensitive help for the active window or dialog box, press F1.
- To select a help topic from a table of contents, index, or search, select Help menu > Help Topics.

Reference Manual

All the material in the online help is also available in a .PDF-format reference manual, which you can access by selecting Help menu > Reference Manual.

The following tools have separate manuals: ConflictManager, Linux Package Editor, Mobile Device Package Editor, Software Manager, Virtual Package Editor, Windows Installer Editor, and WiseScript Package Editor.

Getting Started

The *Getting Started Guide* contains system requirements, installation instructions, and a tutorial. You can access a .PDF version of the *Getting Started Guide* from the Windows Start menu.

The installation and repository management sections of the *Getting Started Guide* are also available as online help. In the Wise Repository Manager, select Help menu > Help Topics, or click the Help button on any of the Wise Package Studio installation dialog boxes.

Release Notes

The product release notes cover new features, enhancements, bug fixes, and known issues for the current version of this product. Access the release notes in the following ways:

- Browse the product CD.
- Select Release Notes from the Altiris program group on the Windows Start menu.

Windows Installer SDK Help (Windows Installer Editor only)

You can get technical details about Windows Installer from its own help system, which is written by Microsoft for a developer audience. In Wise for Windows Installer, select Help menu > Windows Installer SDK Help.

Version 3.1 of the Windows Installer SDK Help is provided. If you have obtained a later version, links from the Wise product documentation to the Windows Installer SDK Help might not work.

Technical Support Resources

If you need help beyond what the product documentation provides, visit the Altiris Service Center, which is your complete online resource for Altiris product support. Access the Altiris Service Center from the Support section of the Altiris Web site.

Use the Altiris Service Center to access the following Altiris support tools and services.

Knowledgebase	Provides a central repository for technical information at Altiris. Articles are reviewed and refined by Altiris personnel and provide information about past problems and their resolutions.
Support forums	Lets Altiris users collaborate and share information. The support forums are monitored by experienced customers, Altiris partners and Altiris personnel.
License Management Portal	Manages and provides access to Altiris product licenses.
Altiris Support Helpdesk	Lets Altiris premium and enterprise support customers use a Web-based tool to log new support incidents, update existing incidents and communicate with Altiris support personnel.
User groups	Provide a place for Altiris users to discuss IT management projects, learn best practices, discover the latest product features, and network with other users.

Before you contact technical support, obtain the following information:

- Serial number and product version, which you can find by selecting Help menu > About.
- Operating system version and service pack version if applicable.
- A description of what you do before the problem occurs.
- The text of any error messages that appear.
- Your name, company name, and how to contact you.
- Contract number or payment information, if applicable.

Chapter 1
Installation Best Practices for Wise Package Studio

This chapter includes the following topics:

- System Requirements on page 7
- Before You Install Wise Package Studio on page 10
- Choosing the Location for the Share Point Directory on page 11
- Configuration Best Practices on page 12
- Authentication Best Practices on page 20

System Requirements

This section describes the minimum system requirements for running Wise Package Studio.

Restrictions

Wise Package Studio cannot be installed on any computer that contains any edition or version of the following:

- Wise for Visual Studio .NET
- Wise for Windows Installer
- Wise Installation Studio
- Wise Installation Express

Supported Operating Systems for Installations That You Create

Installations that you create in Wise Package Studio can run on any operating system that Wise Package Studio supports.

See:

Requirements for Wise Package Studio Server on page 8
Requirements for Wise Package Studio Client on page 8
Requirements for Wise Package Studio Web Applications on page 9
Requirements for .NET Framework on page 10

Requirements for Wise Package Studio Server

➢ *Wise Package Studio Professional or Enterprise Management Server*

Computer/processor	Pentium IV-class processor Minimum: 1 GHz Recommended: 2 GHz Optimal: 4 GHz
Operating system	Minimum: Windows Server 2000 Recommended: Windows Server 2003 Also supported: Windows XP Professional SP2, Windows Vista **Note** SetupCapture cannot be run on unsupported operating systems. To capture on those operating systems, use Wise Web Capture, which is described in the Wise Package Studio Help.
Microsoft Internet Explorer	Minimum: 6.0 Recommended: 7.0
RAM	Minimum: 512 MB Recommended: 2 GB Optimal: 4 GB
Database	• Microsoft SQL Server (English version only) Minimum: SQL Server 2000 Recommended: SQL Server 2005 or SQL Server 2005 Express If you are upgrading from a previous version of Wise Package Studio that used Access or MSDE databases, the Wise Repository Manager will upgrade the databases.

Requirements for Wise Package Studio Client

Computer/processor	PC with a Pentium III-class processor Minimum: 800 MHz Recommended: 1 GHz Optimal: 2 GHz

Operating system	Minimum: Windows 2000 SP4 Recommended: Windows XP Professional SP2 Also supported: Windows Vista, Windows 2003 **Note** SetupCapture cannot be run on unsupported operating systems. To capture on those operating systems, use Wise Web Capture, which is described in the Wise Package Studio Help.
Microsoft Internet Explorer	Minimum: 6.0 Recommended: 7.0
RAM	Minimum: 256 MB Recommended: 512 GB Optimal: 1 GB

Requirements for Wise Package Studio Web Applications

➢ *Not available in Standard Edition*

Availability of the Web applications depends on the module or edition of Wise Package Studio that you install.

Web Application	Requirement
Management Reports	Enterprise Management Server module
Preflight Data Collector and Preflight Analysis	Quality Assurance module
Wise Web Capture	Professional Edition

System Requirements

Computer/processor	PC with a Pentium III-class processor Minimum: 800 MHz Recommended: 1 GHz Optimal: 2 GHz
Operating system	As required by Microsoft Internet Information Server
Microsoft Internet Information Server (IIS)	Minimum: 4.0 or later Recommended: 5.0
Microsoft Internet Explorer	Minimum: 6.0 Recommended: 7.0

RAM	Minimum: 256 MB Recommended: 512 GB Optimal: 1 GB
Database	• Microsoft SQL Server (English version only) Minimum: SQL Server 2000 Recommended: SQL Server 2005 or SQL Server 2005 Express
.NET Framework (Wise Web Capture only)	1.1 must be installed on the server. Later versions may be installed also, but Wise Web Capture works with version 1.1 only.
ASP	Must be installed and enabled
ASP.NET (Wise Web Capture only)	Must be installed and enabled
ISAPI extensions	Must be enabled

Requirements for .NET Framework

The .NET Framework is required for advanced .NET support in Windows Installer Editor. The .NET Framework requires Microsoft® Internet Explorer 5.01 or later and one of the operating systems supported by Wise Package Studio.

Version 1.1 of the .NET Framework is required by the Wise Web Capture tool. Later versions may be installed also, but Wise Web Capture works with version 1.1 only.

Before You Install Wise Package Studio

You might need to gather information, from a team leader, system administrator, database administrator, or other team members, that will enable you to install Wise Package Studio correctly for your environment.

- Review the configuration best practices to determine the best configuration for your environment.

  See Configuration Best Practices on page 12.

- If you are upgrading from a previous version of Wise Package Studio, back up the existing share point directory and Wise Package Studio databases.
- Have serial numbers available during installation. If this is an upgrade, you also need the serial number of the previous version. To find this, open the previous version of Wise Package Studio and select Help menu > About.
- (Professional Edition only) If you plan to use a hidden share for the destination directory, create the directory and designate it as hidden before you install Wise Package Studio. Although this configuration is allowed, we do not recommend it.
- Find out what share point directory to use. In a multi-user environment, the share point directory must be on a shared network drive. All users in a workgroup must specify the same share point directory during installation. This lets all users access the same packages and data.

  See Choosing the Location for the Share Point Directory on page 11.

If you have been using a previous version of Wise Package Studio, you can use your existing share point, but data will be updated to a new format.

- (Professional Edition only) Obtain the following information about the databases you are using for Wise Package Studio:
  - The name of the server that contains the database and the authentication method (NT or SQL Server) that the database uses.
  - Whether the database has been created or whether you need to create it during installation. If it does not exist or needs to be upgraded, you need database administrator privileges to create or upgrade it.
  - So that you can create databases, either your currently logged on user profile must have database administrator privileges on the database server, or you must have the SQL user name and password of a database administrator available.
  - If you plan to use SQL Server authentication, you will need to create users during installation. These users will have access to the database you create. You need to know what user IDs to create.
  - If you plan to use SQL Server authentication, you must configure the target database server to support SQL authentication before you set up any Wise Package Studio databases.
- If you are performing a client installation, obtain the following information about the server installation that the client will connect to.
  - The name and location of the share point directory that was configured during the server installation.
  - (Network Client installations.) The location of the Wise Package Studio directory that was specified during the server installation.

For a list of the options for installing Wise Package Studio, see Installation Options on page 22.

Choosing the Location for the Share Point Directory

Not available in Standard Edition.

The Standard Edition does not use a share point directory.

The recommended location of the share point directory depends on your environment and the edition of Wise Package Studio you have purchased.

Where to Locate the Share Point Directory

The share point directory must reside on the same computer as the Wise Package Studio application files. Versions of Wise Package Studio earlier than 6.0 did not enforce this. If you are upgrading to 6.0 or later, and your share point directory is not on the same computer as Wise Package Studio, you must perform the upgrade so that Wise Package Studio is on the same computer as the share point directory.

See Upgrading an Unsupported Wise Package Studio Configuration on page 19.

Environment	Share Point Location
Single user installing Professional Edition	Local or network directory.
Team, sharing project files, and installing Professional Edition or Enterprise Management Server	Shared network directory accessible to team members. In a large enterprise with multiple teams, each team might use a different share point directory and Wise Software Repository.

When the share point directory is on a shared network drive, all users in a workgroup must specify the same share point directory during installation. This lets all users access the same packages and data.

How is the Share Point Directory Created?

- During the initial Wise Package Studio server installation, the share point directory is created and shared by the Wise Repository Manager.
- During a client installation, a new share point directory is not created. Instead, you must specify the share point directory that was configured during the server installation.
- During creation of a new Wise Software Repository, the share point directory is created and shared by the Wise Repository Manager.

See also:

Configuration Best Practices on page 12

Configuration Best Practices

➢ *Professional Edition only.*

Installing Wise Package Studio - Standard Edition is relatively simple; it can be installed in one basic configuration only and typically is installed by a single user on their local computer.

When you install Wise Package Studio - Professional Edition in a multi-user environment, you have several options for configuring the installation. This section describes the configurations that are supported. Review these configurations before you install Wise Package Studio.

One important change from previous versions is that the share point directory must reside on the same computer as the Wise Package Studio application files. Versions of Wise Package Studio earlier than 6.0 did not enforce this. If you are upgrading to 6.0 or later, and your share point directory is not on the same computer as Wise Package Studio, you must perform the upgrade so that Wise Package Studio is on the same computer as the share point directory.

See Upgrading an Unsupported Wise Package Studio Configuration on page 19.

See:

Dedicated Servers Configuration
Dedicated SQL Server Configuration
Single Server Configuration
Additional Wise Package Studio Configurations
Upgrading an Unsupported Wise Package Studio Configuration

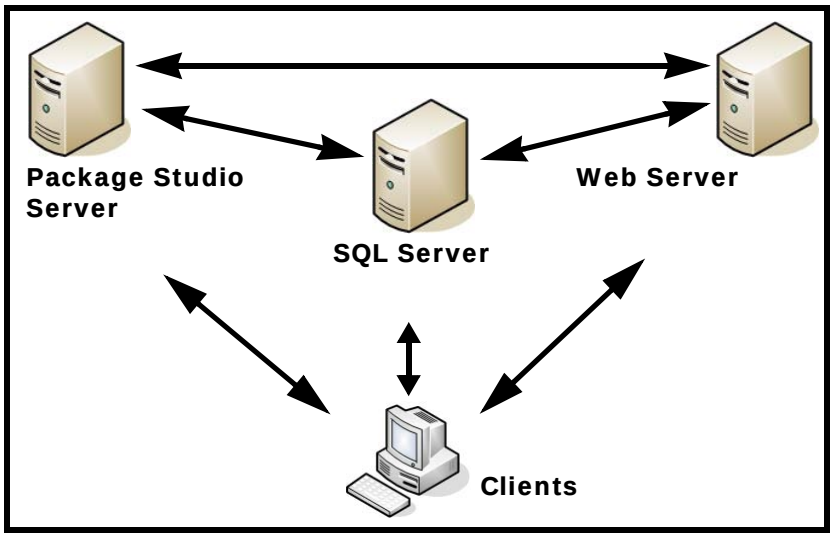
Dedicated Servers Configuration

➢ *Professional Edition only.*

Recommended environment:

- Medium to large packaging teams in multiple locations.
- Large number of users connecting at one time.
- Teams using Preflight Deployment (requires the Quality Assurance module).

  Locate the Web Server as close as possible to the end user desktops on which preflight packages will be run.



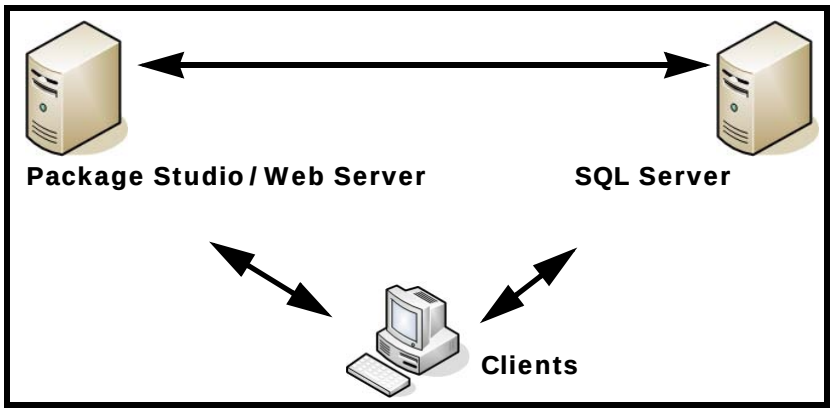
Computer	What to Install
Dedicated Wise Package Studio Server	• Wise Package Studio server • Share point directory
Dedicated SQL Server	• SQL Server • Wise Package Studio databases
Dedicated Web Server	• IIS • ASP • ASP.NET • ISAPI extensions • Wise Web applications
Clients	Wise Package Studio client

Dedicated SQL Server Configuration

➢ *Professional Edition only.*

Recommended environment:

- Medium to large packaging teams in a single location.
- Teams not using Preflight Deployment.
  Locate the Web server as close as possible to the clients.



Computer	What to Install
Wise Package Studio/ Web Server	• Wise Package Studio server • Share point directory • IIS • ASP • ASP.NET • ISAPI extensions • Wise Web applications
Dedicated SQL Server	• SQL Server • Wise Package Studio databases
Clients	Wise Package Studio client

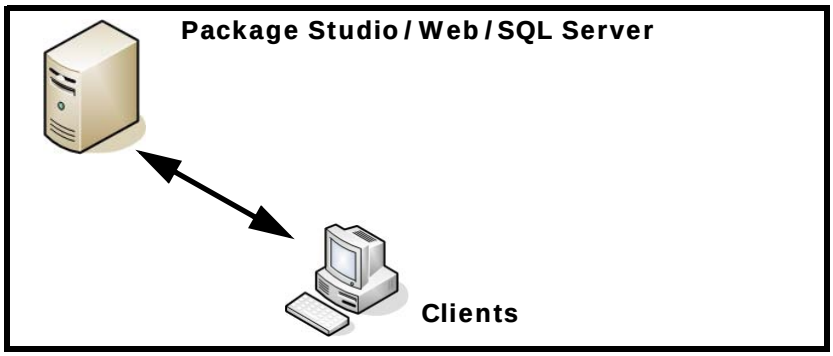
Single Server Configuration

➢ *Professional Edition only.*

Small Team

Recommended environment:

- Single, small team (one to five packagers).
- Managing 500 or fewer applications.
- Team not using Preflight Deployment.



Computer	What to Install
Dedicated Server	• Wise Package Studio server • Share point directory • SQL Server or SQL Server Express • Wise Package Studio databases • IIS • ASP • ASP.NET • ISAPI extensions • Wise Web applications
Clients	Wise Package Studio client

Single User

Recommended environment: Single user with no expected growth. This configuration is not scalable.

Package Studio / Web / SQL Server

Computer	What to Install
Dedicated Server	• Wise Package Studio server • Share point directory • SQL Server or SQL Server Express • Wise Package Studio databases • IIS • ASP • ASP.NET • ISAPI extensions • Wise Web applications
Clients	no clients

Additional Wise Package Studio Configurations

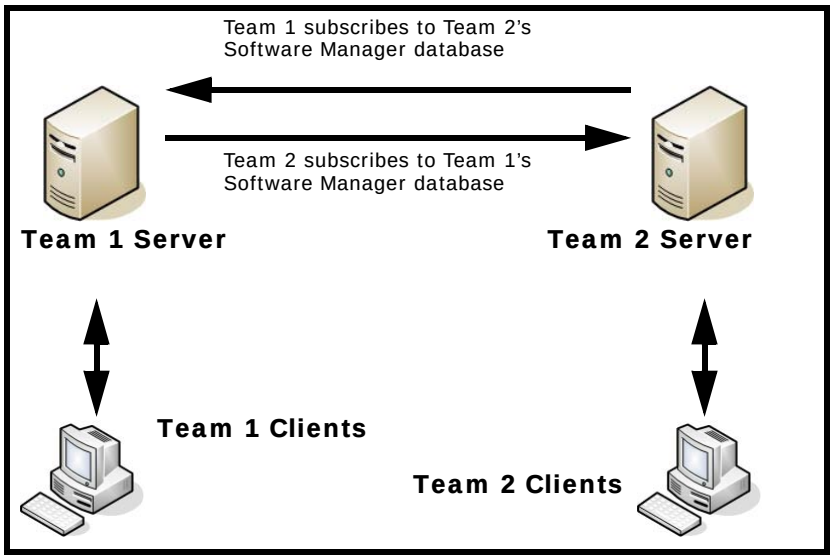
➢ *Professional Edition only.*

After you have determined which of the supported Wise Package Studio configurations is best for your environment, decide whether you need to support multiple Wise Software Repositories or databases.

Multiple Wise Software Repositories

In a large enterprise with multiple teams, each team might use a different share point directory and Wise Software Repository. Because a Wise Package Studio server can be associated with only one active repository at a time, each team must install their repository on a different server.

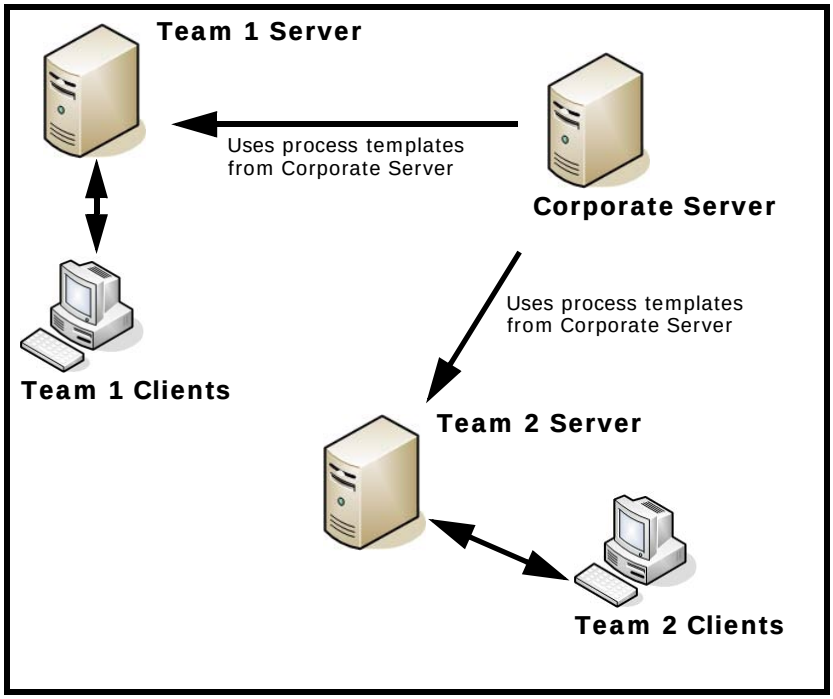
With Enterprise Management Server, members of one team can subscribe to packages in a Software Manager database that is managed by another team. In the example below, each team has subscribed to packages in the other team's Software Manager database.



Note
For ease of illustration, the single server configuration is shown. This concept also works with the other recommended Wise Package Studio configurations.

Additional Workbench Database

With Enterprise Management Server, you can connect to an external Workbench database so that users can use its process templates. Do this to maintain master process templates in a single database and ensure that all users across your organization use the same standard, approved processes.



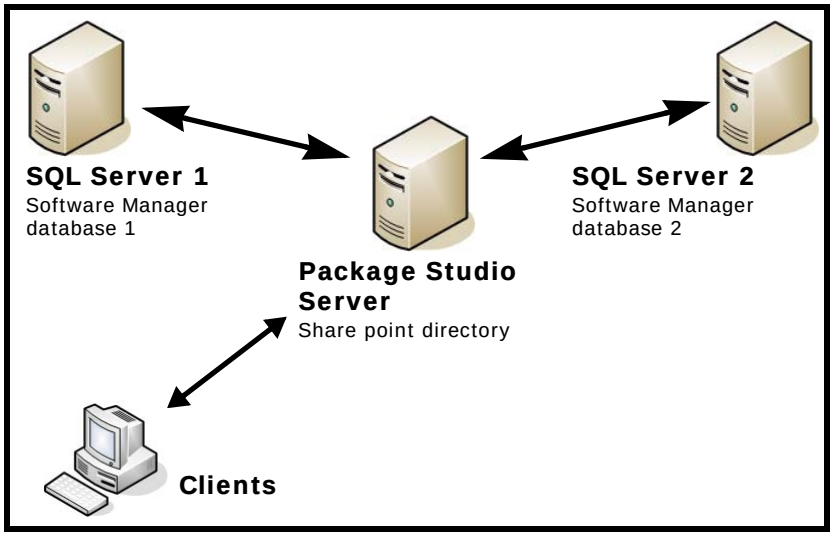
Note
For ease of illustration, the single server configuration is shown. This concept also works with the other recommended Wise Package Studio configurations.

Multiple Software Manager Databases

You might want to use multiple Software Manager databases in these instances:

- If you import a large number of applications for a large organization, you can use multiple databases to reduce the database size.
- If you are repackaging for multiple operating systems, you can use a separate database for each target operating system.
- If your organization has multiple, decentralized departments, each using a different set of packages, you can use a separate database for each department. This concept is similar to using package groups, but on a larger scale.

Each database should reside on its own server. Running multiple databases on a single server degrades performance. In addition, you cannot run the Wise scheduled tasks, which import packages and refresh package subscriptions on a server-based installation, on more than one database on a single computer.



Upgrading an Unsupported Wise Package Studio Configuration

➢ *Professional Edition only.*

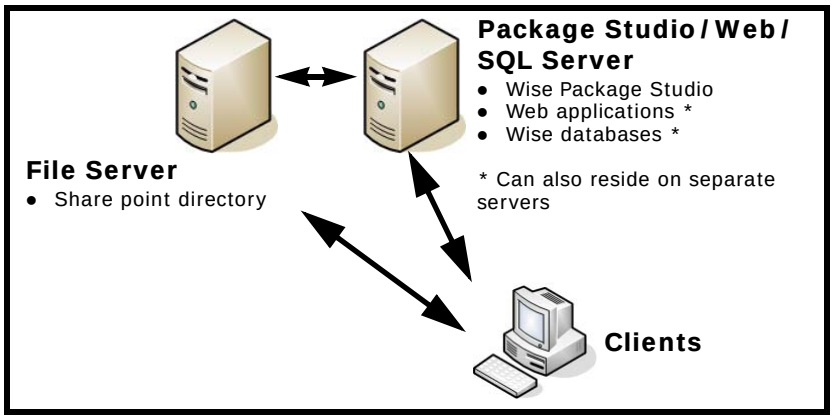
Although it was not recommended, versions of Wise Package Studio earlier than 6.0 allowed the share point directory and the Wise Package Studio installation to be on different servers. With Wise Package Studio 6.0 and later, this configuration is not supported because the Wise Task Manager, a server-side service, requires the share point directory and the Wise Package Studio installation to be on the same server.

If you currently have this configuration, you cannot simply move the share point directory. Instead:

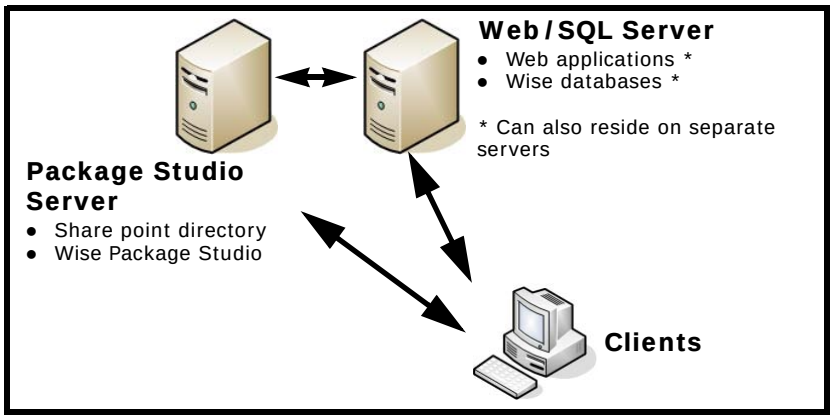
1. Install Wise Package Studio server on the computer that contains the share point directory. The server installation does not use up a license unless someone actually uses Wise Package Studio on that computer.
2. On each client computer, access the Workbench Preferences dialog box > Repository tab and verify that the share point directory on the new Wise Package Studio server is specified.

After upgrading, the Wise Package Studio server is on the computer that contains the share point directory and the Wise Package Studio clients use this share point directory.

Configuration before upgrading



Configuration after upgrading



Authentication Best Practices

For each Wise Package Studio database (Workbench, Software Manager, and Wise Services), you can:

- Specify the logon information for a database administrator (DBA).
- Define how user names and passwords should be validated:

You can use either SQL Server or Windows NT authentication.

Environment	Authentication Method
Client users have local NT accounts.	SQL Server only (recommended).
Client users have a domain account on the SQL server, and have read and write permissions.	Windows NT or SQL Server.

If you have installed SQL Server or SQL Server Express with NT authentication only, the Wise Task Manager, which manages operations on the Wise Package Studio server, will not work. Therefore, during the Wise Package Studio database configuration, the authentication method is changed to mixed mode (NT and SQL). If you have any questions about how this change affects SQL Server security, ask your database administrator.

(Quality Assurance module only.) For best results with the Preflight Deployment feature, use Windows NT authentication for the Wise Services database.

Chapter 2
Installing Wise Package Studio

This chapter includes the following topics:

- *Installation Options* on page 22
- *Upgrading Wise Package Studio* on page 34
- *Starting Wise Package Studio* on page 35
- *Converting an Evaluation Version to a Production Version* on page 37

Installation Options

Wise Package Studio is comprised of several software components. Before you install Wise Package Studio, learn about the different product configurations that you can install and the options that will meet your requirements.

Standard Edition

Consists of the Workbench interface and tools for package creation. The Standard Edition can be installed in one basic configuration only. It typically is installed by a single user on their local computer.

See *Installing the Standard Edition* on page 23.

Professional Edition

Consists of the Workbench interface and tools for package creation, management, and and conflict resolution. It also includes the Altiris Software Virtualization Agent (SVS Agent). However, if you install Wise Package Studio on a 64-bit computer, the SVS agent is not installed and any functionality that requires this agent is unavailable.

You can install Wise Package Studio Professional Edition in several different configurations and purchase additional modules that extend its functionality: Quality Assurance, Enterprise Management Server.

The Professional Edition has three installation types:

- **Server**
  The server installation includes the share point directory and the Wise Package Studio databases.

  In a single-user environment, you can install the Professional Edition on your local computer. In effect, your local computer is the server. We recommend that you do this only if you do not plan to add users in the future.

  In the more typical group environment, you run the server installation on a shared network location. Then, you run the client installation on individual users' computers.

  See *Installing the Professional Edition, Server* on page 25.

- **Client**
  The client installation uses the share point directory and Wise Package Studio databases that are installed on the server. In a client installation, you can install the Wise Package Studio program files on the client computer, or install shortcuts and support files that connect to the Wise Package Studio program files that are installed on the server.

  See *About the Wise Package Studio Client Installation* on page 28 and *Installing the Professional Edition, Client* on page 28.

- **Web**
  The Web option appears only if Internet Information Services (IIS) is installed and if you enter a serial number for at least one product that includes a Web application (Professional Edition, Quality Assurance, or Enterprise Management Server).

  Wise Package Studio Web applications are:

  - **Management Reports**
    Requires an Enterprise Management Server or bundle serial number. This lets managers use a Web interface to view management reports stored in the Software Manager database without having installed any Wise Package Studio software on their computers.
  - **Preflight Data Collector and Preflight Data Analysis**
    Requires a Quality Assurance or bundle serial number. These applications are part of the Preflight Deployment feature and are used for evaluating installations.
  - **Wise Web Capture**
    Requires a Professional Edition serial number. This lets repackagers capture installations on a clean machine without installing any additional software.

  See *Installing Web Applications* on page 32.

Enterprise Management Server Module

Installs components needed for project management, viewing reports, accessing multiple databases, and automatically importing package information. Includes user and group-based security, which can be integrated with NT authentication. It includes Management Reports.

This module can be installed only with Wise Package Studio - Professional Edition. Enter an Enterprise Management Server or bundle serial number during installation, or through User Licensing Setup in Workbench after installation.

Quality Assurance Module

Installs these quality assurance tools: Test Expert and Package Instrumentation. It also adds the ability to create new validation modules and validation rules in Package Validation.

This module can be installed only with Wise Package Studio - Professional Edition. Enter a Quality Assurance or bundle serial number during installation, or through User Licensing Setup in Workbench after installation.

Installing the Standard Edition

The Standard Edition consists of the Workbench interface and tools for package creation. The Standard Edition can be installed in one basic configuration only. It typically is installed by a single user on their local computer.

For help during installation, click the Help button on any dialog box.

Note
The Wise Package Studio installation is run from an .EXE that installs Wise Package Studio and, in the Professional Edition, the Altiris Software Virtualization Agent. During installation, the Wise Package Studio .MSI file is extracted to \Program Files\Altiris\Setup Files\Wise Package Studio. The Software Virtualization Agent .MSI file is extracted to \Program Files\Altiris\Setup Files\Software Virtualization Solution. Do not delete these files because they are needed for future repairs.

Starting the Installation

1. Close any other applications that are running.
2. Start the installation program:
   - From a downloaded file: double-click the installation file.
   - From the product CD:

     When you insert the product CD, the Welcome page appears. Click the button that installs Wise Package Studio. If the Welcome page does not appear, use Windows Explorer to browse to the CD, then open the file named Autoplay.exe.
3. On the Welcome page, click Next.
4. On the License Agreement page, read the license terms, mark **I accept the License Agreement**, and click Next. If you do not accept the license agreement, you cannot continue the installation.
5. Complete the User Information page:
   - **Serial Numbers**
     Click Add to display a dialog box on which you can enter the serial number.
     - **Serial Number**
       Enter a serial number for the Standard Edition.
     - **Previous Serial Number**
       If you are upgrading from a previous version of Wise Package Studio, enter the serial number for the previous version. If you don't know the previous version serial number, open Wise Package Studio and select Help menu > About. The serial number appears on the About dialog box.
   - **Install Evaluation Version**
     Mark this to install an evaluation version without a serial number.
   - **Full Name, Organization**
     Enter this identifying information.
6. Complete the remaining pages, which are described below.

Wise Package Studio Evaluation page

This page appears only when you mark the **Install Evaluation Version** check box on the User Information page.

Mark the option for the edition of Wise Package Studio to install. If you install the Professional Edition, you can also mark options to include the Enterprise Management Server module and the Quality Assurance module.

Wise Package Studio Directory dialog box

In **Destination Directory**, specify where to install the Wise Package Studio application files.

Ready to Install the Application page

Click Next to start installing.

Final dialog box

When the installation finishes, a dialog box indicates that the installation has been completed successfully.

On the final dialog box, click Finish to exit the installation.

If you are prompted to restart your computer, do so.

Installing the Professional Edition, Server

The Professional Edition consists of the Workbench interface and tools for package creation, management, and conflict resolution. The server installation includes the share point directory and the Wise Package Studio databases.

For help during installation, click the Help button on any dialog box. For configuration recommendations, refer to the configuration best practices.

See Configuration Best Practices on page 12.

Before the Installation

- Ensure that SQL Server or SQL Server Express is running on the computer on which you will install the Wise Package Studio databases.
- If you are upgrading from a previous version of Wise Package Studio, back up the existing share point directory and Wise Package Studio databases.
- If you use a hidden share for the destination directory, create the directory and designate it as hidden before you install Wise Package Studio. Although this configuration is allowed, we do not recommend it.

Note
The Wise Package Studio installation is run from an .EXE that installs Wise Package Studio and, in the Professional Edition, the Altiris Software Virtualization Agent. During installation, the Wise Package Studio .MSI file is extracted to \Program Files\Altiris\Setup Files\Wise Package Studio. The Software Virtualization Agent .MSI file is extracted to \Program Files\Altiris\Setup Files\Software Virtualization Solution. Do not delete these files because they are needed for future repairs.

Starting the Installation

1. Close any other applications that are running.
2. Start the installation program:
   - From a downloaded file: double-click the installation file.
   - From the product CD:

     When you insert the product CD, the Welcome page appears. Click the button that installs Wise Package Studio. If the Welcome page does not appear, use Windows Explorer to browse to the CD, then open the file named Autoplay.exe.

3. On the Welcome page, click Next.
4. On the License Agreement page, read the license terms, mark **I accept the License Agreement**, and click Next. If you do not accept the license agreement, you cannot continue the installation.
5. Complete the User Information page:
   - **Serial Numbers**
     Click Add to display a dialog box on which you can enter the serial number.
     - **Serial Number**
       Enter a serial number for the Professional Edition. Also enter serial numbers for any additional modules that you might have purchased (Quality Assurance and Enterprise Management Server).
     - **Previous Serial Number**
       If you are upgrading from a previous version of Wise Package Studio, enter the serial number for the previous version. If you don't know the previous version serial number, open Wise Package Studio and select Help menu > About. The serial number appears on the About dialog box.
   - **Install Evaluation Version**
     Mark this to install an evaluation version without a serial number.
   - **Full Name, Organization**
     Enter this identifying information.
6. Complete the remaining pages, which are described below.

Wise Package Studio Evaluation page

This page appears only when you mark the **Install Evaluation Version** check box on the User Information page.

Mark the option for the edition of Wise Package Studio to install. If you install the Professional Edition, you can also mark options to include the Enterprise Management Server module and the Quality Assurance module.

Select Installation Type dialog box

Mark **Server**.

Wise Package Studio Directory dialog box

In **Destination Directory**, specify where to install the Wise Package Studio application files.

If you use a hidden share for the destination directory, specify its UNC path.

User Account for Wise Server-Side Service dialog box

Wise Package Studio contains a service that lets users on a client computer perform certain operations on the Wise Package Studio server. This user account lets the service access information it needs to perform these operations. Also, this user account becomes the Wise Package Studio server administrator; to use the Wise Repository Manager, you must be logged on as this user.

Note
This account is based on the NT account of the currently logged on user. If you prefer to run the Wise service under a different account, then cancel the installation, log on with that account, and restart the installation.

- **User**
  (Read-only.) This defaults to the currently logged on user. It is the same as your Windows NT logon.
- **Password**
  Enter the password of the currently logged on user.

If this password changes, you must change it in the Wise Repository Manager.

See *Setting the Wise Service Account* on page 50.

Web Applications page

Availability of the following options depends on the serial numbers you entered, whether IIS is installed, and whether the requirements for Web applications have been met.

- **Destination Directory**
  Specify where to install files for Wise Package Studio Web applications.
- **Management Reports**
  (Enterprise Management Server only.) This lets managers use a Web interface to view management reports that are stored in the Software Manager database without having installed any Wise Package Studio software on their computers.
- **Preflight Data Collector and Preflight Analysis**
  (Quality Assurance only.) These applications are part of the Preflight Deployment feature and are used for evaluating installations.
- **Wise Web Capture**
  This lets repackagers capture installations on a clean machine without adding any additional software.

If you do not install Web applications now, you can install them later.

See:

Installing Web Applications on page 32
Requirements for Wise Package Studio Web Applications on page 9

Ready to Install the Application page

Click Next to start installing.

When the Installation Finishes

When the Wise Package Studio installation finishes, the Altiris Software Virtualization Agent is installed if necessary. If the agent is already installed but the version is earlier than what Wise Package Studio requires, it is updated.

If you are prompted to restart your computer, do so.

What to Do Next

- Before you can use Wise Package Studio, you must configure the repository.
  See *Configuring the Wise Software Repository* on page 42.

- If you upgraded from a previous version, you must upgrade the Wise Package Studio databases.

  See *Upgrading the Wise Package Studio Databases* on page 43.

- If you need to add licenses after the installation is finished, use User Licensing Setup in Workbench. See *License Management* in the Wise Package Studio Help.

About the Wise Package Studio Client Installation

➢ *Not available in Standard Edition.*

In a client-server configuration, you perform a Wise Package Studio server installation on one computer that is designated the *Wise Package Studio server*, and then you perform a Wise Package Studio client installation on multiple client computers. During the client installation, Microsoft Data Access Components (MDAC) 2.6 SP2 is installed to allow connections to the remote databases.

You can perform a client installation silently from the command line.

See *Installing Wise Package Studio Client Silently* on page 31.

Two client installations are available: Local and Network. You can use both the Local and Network client installation among members of the same team; the only requirement is that all users designate the same share point directory.

Local Client

This installs a fully functional version of Wise Package Studio on the client computer. Do this when network bandwidth is limited.

Network Client

This is a quick and small installation for repackagers who re-image their computers frequently. It installs only the registry settings, .INI files, ODBC data source connections, and shortcuts necessary to run the Wise Package Studio applications from the packaging server. It also installs MDAC, DAO runtime, MFC support files, Test Expert support files, and the Windows Installer runtime.

Why use the Network Client configuration?

- It minimizes changes to the client computers for repackaging.
- It simplifies and speeds installation on client computers.
- It is easier to upgrade and maintain.

Installing the Professional Edition, Client

The client installation uses the share point directory and Wise Package Studio databases that are installed on the server. In a client installation, you can install the Wise Package Studio program files on the client computer, or install shortcuts and support files that connect to the Wise Package Studio program files that are installed on the server.

You can perform a client installation silently from the command line.

See *Installing Wise Package Studio Client Silently* on page 31.

For help during installation, click the Help button on any dialog box. For configuration recommendations, refer to the configuration best practices.

See Configuration Best Practices on page 12.

Before the Installation

- Verify that a Wise Package Studio server installation was performed on the server that the client will connect to.
- Verify that the Wise Software Repository was configured.
- If you will perform a Network Client installation, share the Wise Package Studio application directory that was specified during the server installation.

Note
The Wise Package Studio installation is run from an .EXE that installs Wise Package Studio and, in the Professional Edition, the Altiris Software Virtualization Agent. During installation, the Wise Package Studio .MSI file is extracted to \Program Files\Altiris\Setup Files\Wise Package Studio. The Software Virtualization Agent .MSI file is extracted to \Program Files\Altiris\Setup Files\Software Virtualization Solution. Do not delete these files because they are needed for future repairs.

Starting the Installation

1. Close any other applications that are running.
2. Start the installation program:
   - From a downloaded file: double-click the installation file.
   - From the product CD:

     When you insert the product CD, the Welcome page appears. Click the button that installs Wise Package Studio. If the Welcome page does not appear, use Windows Explorer to browse to the CD, then open the file named Autoplay.exe.
3. On the Welcome page, click Next.
4. On the License Agreement page, read the license terms, mark **I accept the License Agreement**, and click Next. If you do not accept the license agreement, you cannot continue the installation.
5. Complete the User Information page:
   - **Serial Numbers**
     Click Add to display a dialog box on which you can enter the serial number.
     - **Serial Number**
       Enter a serial number for the Professional Edition. Also enter serial numbers for any additional modules that you might have purchased (Quality Assurance and Enterprise Management Server).

       You cannot use an evaluation serial number for the client installation if you used a production serial number for the server installation.
     - **Previous Serial Number**
       If you are upgrading from a previous version of Wise Package Studio, enter the serial number for the previous version. If you don't know the previous version serial number, open Wise Package Studio and select Help menu > About. The serial number appears on the About dialog box.
   - **Install Evaluation Version**
     Mark this to install an evaluation version without a serial number.
   - **Full Name, Organization**
     Enter this identifying information.

6. Complete the remaining pages, which are described below.

Wise Package Studio Evaluation page

This page appears only when you mark the **Install Evaluation Version** check box on the User Information page.

Mark the option for the edition of Wise Package Studio to install. If you install the Professional Edition, you can also mark options to include the Enterprise Management Server module and the Quality Assurance module.

Select Installation Type dialog box

Mark **Client**.

Wise Package Studio Client Selection dialog box

- **Local Client**
  Installs a fully functional version of Wise Package Studio on the client computer and connects to the Wise Software Repository on the server.
- **Network Client**
  Installs shortcuts and support files that connect to a server installation of Wise Package Studio.

Wise Share Point Directory dialog box

Specify the share point directory that was configured during the server installation. Enter a shared network location in UNC (recommended) or mapped drive notation. (Example of UNC: \\Server_Name\Wise Share Point.)

In a large enterprise with multiple teams, each team might have a different share point directory and Wise Software Repository. After installation, you can change the repository that a client installation connects to. See *Setting Repository Preferences* in the Wise Package Studio Help.

Wise Package Studio Directory dialog box

- Local client: Specify a directory on your computer. The Wise Package Studio files will be installed there.
- Network client: Specify the same Wise Package Studio directory that was specified during the server installation. Use UNC (recommended) or mapped drive notation. (Example of UNC: \\Server_Name\Wise Package Studio.) Shortcuts and support files that connect to that location will be installed on your computer.

  A UNC path is required if you use a hidden share for the destination directory.

Ready to Install the Application page

Click Next to start installing.

When the Installation Finishes

When the Wise Package Studio installation finishes, the Altiris Software Virtualization Agent is installed if necessary. If the agent is already installed but the version is earlier than what Wise Package Studio requires, it is updated.

If you are prompted to restart your computer, do so.

Adding Licenses After Installation

If you need to add licenses after the installation is finished, use User Licensing Setup in Workbench. See *License Management* in the Wise Package Studio Help.

Installing Wise Package Studio Client Silently

➢ *Not available in Standard Edition.*

You can install the Wise Package Studio client and the Altiris Software Virtualization Agent (SVS Agent) silently from the command line, using the following Windows Installer command-line options with the installation .MSI. During the server installation, the .MSI is extracted to \Program Files\Altiris\Setup Files\Wise Package Studio.

/i	Installs the product
/qn	Runs the installation with no user interface (silent installation)
/qb	Runs the installation with a basic user interface

These options are described in the Windows Installer SDK Help, which is included in Windows Installer Editor.

Silent installation properties and values

SERIALS	One or more valid serial numbers To specify multiple serial numbers, delimit them with the pipe (|) character. Example: AAAA-BBBB-CCCC-DDDD|EEEE-FFFF-GGGG-HHHH
MODE	Client
CLIENT	• Local • Network
SHAREPOINT	Valid path to the share point directory
WPSDIR	Valid path where the Wise Package Studio application files should be installed For a Network Client installation, specify the same Wise Package Studio directory that was specified during the server installation.

Silent installations do not validate the share point directory or Wise Package Studio directory. Be sure to specify valid paths in the command line.

Installing the Altiris Software Virtualization Agent Silently

Some of the functionality of Wise Package Studio requires the Altiris Software Virtualization Agent (SVS Agent). Therefore, if you install the Wise Package Studio client silently, you must include a command line that installs the SVS Agent. Otherwise, the functionality that requires the agent will not work.

When the SVS Agent installation finishes, a restart occurs. This is required for Wise Package Studio and the SVS Agent to function properly.

Obtain the registration key for the SVS Agent from your server installation of Wise Package Studio. On the server, select Start > Settings > Control Panel > Altiris SVS. The registration key appears on the About tab of the Altiris SVS applet.

- Use the following command line when the Altiris Software Virtualization Agent is not already installed on the client computer.

  msiexec.exe /qn /i "*PATH to Software_Virtualization_Agent.msi*" PRODUCT_KEY=*registration key*

  Warning
  If you use the above command line on a computer that has the SVS Agent installed, it will uninstall the existing agent and delete all layers. If the SVS Agent is already installed on the computer, use the following command line instead.

- Use the following command line when the Altiris Software Virtualization Agent is installed on the client computer. This command line updates the existing installation of the agent.

  msiexec.exe /qb- /fvamus *PATH to Software_Virtualization_Agent.msi* PRODUCT_KEY=*registration key*

Example

The following command lines perform a silent, Network Client installation of Wise Package Studio and the Altiris Software Virtualization Agent. In this example, the client computer does not have the SVS Agent installed.

msiexec.exe /i "C:\WPS_7_00.msi" SERIALS="*AAAA-BBBB-CCCC-DDDD*" MODE="Client" CLIENT="Network" SHAREPOINT="*Server_Name*\Wise Share Point\" WPSDIR="*Server_Name*\Wise Package Studio\" /qn

msiexec.exe /qn /i "*PATH to Software_Virtualization_Agent.msi*" PRODUCT_KEY=*registration key*

See also:

About the Wise Package Studio Client Installation on page 28

Installing Web Applications

➢ *Not available in Standard Edition.*

Wise Package Studio Web applications are: Management Reports; Preflight Data Collector and Preflight Data Analysis; and Wise Web Capture.

Installing a Web application consists of creating a virtual directory for that Web application. The Web applications must be installed on a Microsoft Internet Information Services (IIS) Web server on your network. You must also ensure that the other requirements for the Web applications have been met.

See Requirements for Wise Package Studio Web Applications on page 9.

You can install Web applications on the server that contains Wise Package Studio (the Wise Package Studio server), or on a different server.

Options for Installing Web Applications

When will you install the Web applications?	Where will you install the Web application?	How to install the Web applications
During the initial installation	On the Wise Package Studio server (this configuration is typical for a single user or small group)	See *Installing the Professional Edition, Server* on page 25.
After the initial installation	On the Wise Package Studio server	Install Web applications from Add/Remove Programs (see details below).
After the initial installation	On a server with no Wise Package Studio programs or Web applications	Install Web applications from the installation (see details below).
After adding a new license number for Quality Assurance or Enterprise Management Server in Workbench	On the Wise Package Studio server or any other server that contains a Wise Package Studio Web application	Install Web applications from Add/Remove Programs (see details below).
After adding a new license number for Quality Assurance or Enterprise Management Server in Workbench	On a server with no Wise Package Studio programs or Web applications	Install Web applications from the installation (see details below).

See also:

Configuration Best Practices on page 12

To install Web applications from the installation

1. Run the Wise Package Studio installation.

   See *Installing the Professional Edition, Server* on page 25.

2. On the User Information dialog box, enter the Professional serial number you used for the original server installation. If necessary, enter any other serial numbers that are associated with the Web application you are installing (Quality Assurance, Enterprise Management Server).

3. On the Select Installation Type dialog box, mark **Web**.

4. On the Wise Share Point Directory dialog box, specify the share point directory that was configured during the server installation. If you specified a mapped drive during the initial configuration, then specify a mapped drive here. Otherwise, use UNC notation. (Example of UNC: \\Server_Name\Wise Share Point)

5. On the Web Applications dialog box, mark the check boxes for the Web applications you are installing.
6. Complete the installation.

To install Web applications from Add/Remove Programs

When you install a Web application on a computer that already contains Wise Package Studio programs or a Wise Package Studio Web application, use Add/Remove Programs. Do not try to run the Wise Package Studio installation because it will perform a repair.

1. Select Start > Control Panel > Add/Remove Programs.
2. On the Add/Remove Programs dialog box, click **Wise Package Studio** and click its Change button.

   The Wise Package Studio installation starts and the Application Maintenance dialog box appears.
3. Mark **Modify** and click Next.
4. The User Information dialog box displays the serial number or numbers for the existing installation. Accept the default serial numbers. If necessary, enter any other serial numbers that are associated with the Web application you are installing (Quality Assurance, Enterprise Management Server).
5. On the Web Applications dialog box, mark the check boxes for the Web applications you are installing.
6. Complete the installation.

Upgrading Wise Package Studio

When you upgrade from a previous version of Wise Package Studio, the upgrade installation uninstalls the previous version and installs the new version. It does not delete the existing share point directory, Wise Package Studio databases, or settings.

To upgrade Wise Package Studio

1. Back up the existing share point directory and Wise Package Studio databases.
2. If your current version of Wise Package Studio uses an MSDE database, upgrade to SQL Server Express. Wise Package Studio no longer supports MSDE databases.

   See System Requirements on page 7.
3. Run the installation and, on the User Information dialog box, enter a new serial number and the previous version serial number.

   See *Installing the Standard Edition* on page 23.
   See *Installing the Professional Edition, Server* on page 25.
   See *Installing the Professional Edition, Client* on page 28.
4. (Professional Edition, Server installation only) After the installation finishes, open the Wise Repository Manager to upgrade the share point directory and databases.

   See *Upgrading the Wise Package Studio Databases* on page 43.

Starting Wise Package Studio

1. Select Start menu > Programs > Altiris > Wise Package Studio > Wise Package Studio.
2. If the Wise Package Studio Logon dialog box appears, log on as instructed by your Wise Package Studio administrator. (Not available in Standard Edition.)

   See *Wise Package Studio Logon Options*.

   If you cannot log on, one or more dialog boxes might appear.

   See *If Your Logon Fails*.
3. Click OK.

   The first time you start Wise Package Studio, Workbench opens to the Projects tab. The Standard Edition opens a project named Sample Project; the Professional Edition opens the Initial Workbench Setup project.

If Your Logon Fails

➢ *Not available in Standard Edition.*

You cannot log on to Wise Package Studio if:

- You have not configured the Wise Software Repository in the Wise Repository Manager.

  See *Configuring the Wise Software Repository* on page 42.
- You have not been assigned a Wise Package Studio license.
  - If a serial number is available, you might be assigned a serial number automatically. If not, the Assign User Licensing dialog box appears. Mark one or more check boxes for the licenses to assign.

    With Enterprise Management Server, you cannot be assigned a serial number automatically. The Wise Package Studio administrator must assign licenses.
  - If a serial number is not available, the Add Serial Number dialog box appears.
  - If you entered a user name from a Windows NT account, and Security Setup does not contain a security group that matches the domain group you belong to, you are prompted to contact your Wise Package Studio administrator. (Enterprise Management Server only.)

Wise Package Studio Logon Options

➢ *Not available in Standard Edition.*

When you start Wise Package Studio, the Wise Package Studio Logon dialog box appears. Obtain your logon information from your Wise Package Studio administrator.

Your entries in this dialog box depend on the type of logon account you use.

See *Options on the Wise Package Studio Logon dialog box*.

Types of Wise Package Studio logon accounts

Logon account	Usage	Requirements
Workbench account	This account is defined when you are assigned a Wise Package Studio license. Use it when: ● You do not have an Enterprise Management Server license. ● The computer is not connected to a Windows NT domain. Example: When you use Wise Package Studio on a lab computer.	None.
Current Windows NT account	Log on to Wise Package Studio as the currently logged-on Windows NT user.	● The computer must be connected to a Windows NT domain. ● You must have an Enterprise Management Server license. ● Security Setup must contain a security group whose name matches a valid group in the NT domain, and you must be defined in that domain group. If you are in multiple NT groups, you are logged on under the first valid group that is encountered.
Windows NT account	Log on to Wise Package Studio with a Windows NT account. This account can be different from the one that is currently logged on to Windows. This lets you log on to Wise Package Studio from another computer, including a remote computer.	● The computer must be connected to a Windows NT domain. ● The remote computer must have Wise Package Studio installed. ● You must have an Enterprise Management Server license. ● Security Setup must contain a security group whose name matches a valid group in the NT domain, and you must be defined in that domain group. If you are in multiple NT groups, you are logged on under the first valid group that is encountered.

Options on the Wise Package Studio Logon dialog box

Option	Workbench account entries	Current NT account entries	Windows NT account entries
User Name	● (Professional Edition) Type your user name from User Licensing Setup. ● (Enterprise Management Server) Type your user name from Security Setup.	Leave this box blank.	Type your Windows NT user name for the Windows NT domain.

Option	Workbench account entries	Current NT account entries	Windows NT account entries
Password	(Enterprise Management Server only) Type your password from Security Setup.	Leave this box blank.	Type your password for the Windows NT domain.
Use Security From	Click **(Workbench Database)**.	Leave the default. This option is disabled when you select the next option.	Select the Windows NT domain name.
Always Use Current Network Login	Uncheck this check box.	Check this check box. When you start Wise Package Studio in the future, you are logged on automatically.	Uncheck this check box.

Converting an Evaluation Version to a Production Version

You can convert an evaluation version of Wise Package Studio to a production version without uninstalling the product.

1. Purchase the product and obtain a production serial number.
2. Start Wise Package Studio.
   - If the evaluation period has not expired, then when the Wise Package Studio Evaluation dialog box appears, click Serial Number. The Add Serial Number dialog box appears.
   - If the evaluation period has expired, and a production serial number is not available, the Add Serial Number dialog box appears.
   - If the evaluation period has expired, and a production serial number is available, you are assigned a serial number and logged on.

     This happens when someone adds production serial numbers to an evaluation version of Wise Package Studio. In that case, all evaluation licenses expire.
3. On the Add Serial Number dialog box, enter a production serial number and click OK.

   The evaluation version is converted to a production version. The next time you start Wise Package Studio, the evaluation dialog box no longer appears.

Chapter 3
Managing the Wise Software Repository

This chapter includes the following topics:

- About the Wise Repository Manager on page 38
- About the Wise Software Repository on page 38
- Starting the Wise Repository Manager on page 40
- The Wise Repository Manager Interface on page 40
- Configuring the Wise Software Repository on page 42
- Upgrading the Wise Package Studio Databases on page 43
- Changing Database Settings on page 44
- Creating Software Manager Databases on page 45
- Creating a New Repository on page 46
- Opening a Repository on page 46
- Repository Configuration Dialog Boxes on page 47
- Choosing a Revision Control System on page 49
- Setting the Wise Service Account on page 50
- Connecting to an External Workbench Database on page 51

About the Wise Repository Manager

The Wise Repository Manager gives you control over database configuration and updates, and lets you see the changes that are made by database updates. The Wise Repository Manager provides a view of the Wise Software Repository. The Wise Repository Manager is available on the Wise Package Studio server only.

To use the Wise Software Manager, you should be familiar with creating databases and registering ODBC data sources. We do not offer technical support for SQL Server or SQL Server Express. If you need help, ask your database administrator.

Warning
Do not modify Wise Package Studio databases outside the Wise Repository Manager.

About the Wise Software Repository

➢ *Not available in Standard Edition.*

The Wise Software Repository™ is a collection of software packages, resources and information about those resources, project management information, and quality assurance data used by organizations as part of the repackaging process. This scalable

repository provides a centralized point for managing software packages at any stage of deployment.

The Wise Software Repository consists of:

- **Share point directory**
  Contains shared Wise Package Studio files and shared resources that are used to create Windows Installer installations. It also contains source files for packages in the Software Manager database. All Wise Software Repository databases are associated with a specific share point directory.
- **Workbench database**
  Stores information that Wise Package Studio creates and uses. Examples: project, process, tool, and security information. A repository can contain only one Workbench database.
- **Software Manager database**
  Contains all software packages and other resources that are used by an organization. Other resources include: merge modules, device drivers, Group Policy Objects, and standard operating system environment snapshots. A repository can contain multiple Software Manager databases.
- **Wise Services database**
  (Formerly named Preflight database.) Stores the following data that is generated and used by Wise services:
  - Tasks that are managed by the Wise Task Manager. Examples: importing packages; running the Merge Module Wizard; compiling .MSI or .WSI packages in Software Manager; remotely compiling packages in Windows Installer Editor.
  - (Quality Assurance module only.) The results that are generated from deploying preflight packages, which are made with Package Instrumentation. These results are used by the Preflight Data Collector and Preflight Analysis Web applications.

  A repository can contain only one Wise Services database.

Multiple Repositories

- In a large enterprise with multiple teams, each team might use a different share point directory and Wise Software Repository. Because a Wise Package Studio server can be associated with only one active repository at a time, each team must install their repository on a different server.
- A single Wise Package Studio server can contain multiple repositories. However, only one repository can be active at a time.

To change the active repository on a Wise Package Studio server, open the repository in the Wise Repository Manager.

A Wise Package Studio client can connect to any Wise Software Repository that it can access. To change a client's default repository, use the Workbench Preferences dialog box > Repository tab and specify the share point that is associated with an active Wise Software Repository.

Starting the Wise Repository Manager

➢ *Not available in Standard Edition.*

Requirements

To use the Wise Repository Manager:

- You must be logged on to a computer that contains a Wise Package Studio server installation.
- You must be logged on as the Wise Package Studio server administrator, that is, the user account under which Wise Package Studio was installed.

To start the Wise Repository Manager:

After Wise Package Studio is installed, select Start menu > Programs > Altiris > Wise Package Studio > Wise Repository Manager.

If the Wise Software Repository has not been configured, the Create New Repository wizard starts.

See Repository Configuration Dialog Boxes on page 47.

See also:

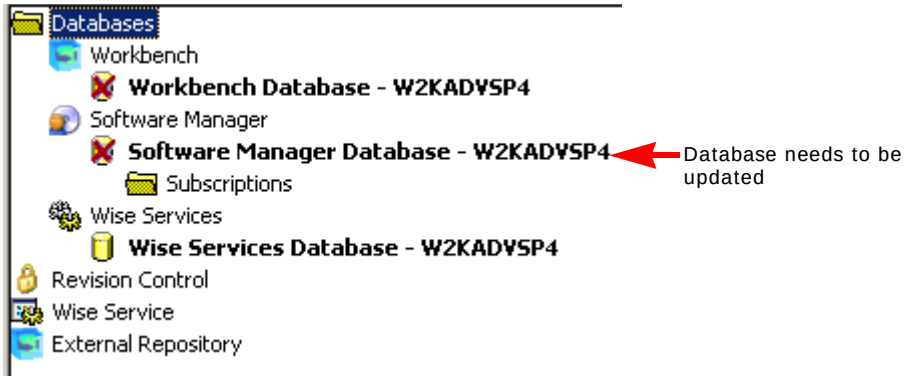
The Wise Repository Manager Interface on page 40
Configuring the Wise Software Repository on page 42
Upgrading the Wise Package Studio Databases on page 43
Changing Database Settings on page 44
Creating Software Manager Databases on page 45
Creating a New Repository on page 46
Opening a Repository on page 46
Choosing a Revision Control System on page 49
Setting the Wise Service Account on page 50

The Wise Repository Manager Interface

➢ *Not available in Standard Edition.*

When the Wise Repository Manager opens, it displays the current repository.

Wise Repository Manager left pane



The left pane contains a tree structure that represents:

- The databases that comprise the Wise Software Repository. If the repository contains multiple Software Manager databases, the default is displayed in bold type.

  Note
  The Subscriptions subfolder displays any databases that are subscribed to from the selected Software Manager database. To manage a subscribed database, open the repository that it is associated with.

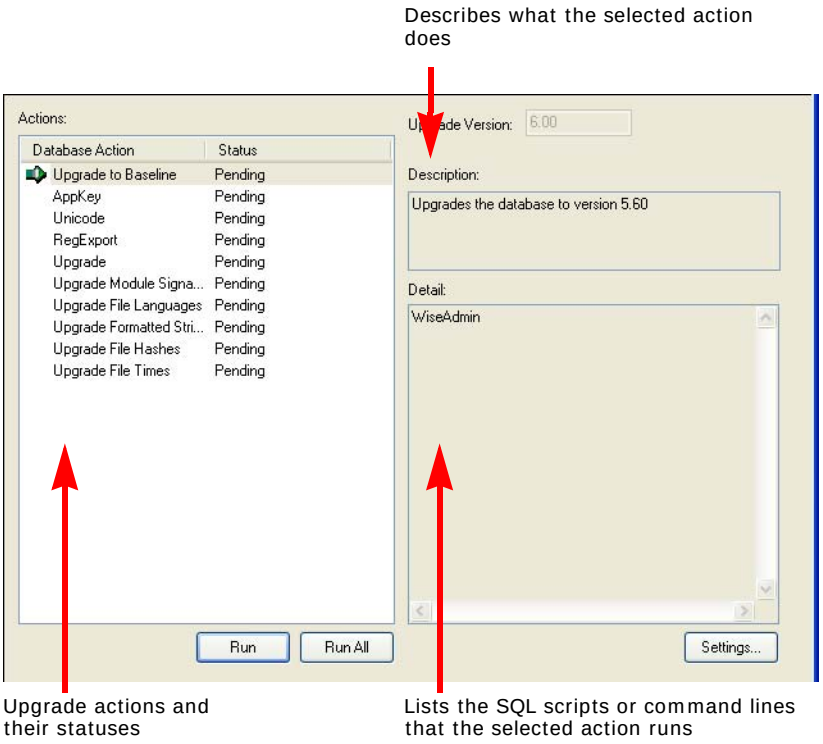
  See Opening a Repository on page 46.

- Pages that contain settings for Revision Control, the Wise Service account, and connecting to an external repository.

Click the top-level folder or a database icon to display help in the right pane.

Click a specific database (in bold type) to display maintenance options in the right pane.

Wise Repository Manager right pane



In the right pane, you can:

- Upgrade the database to a new version.
  See Upgrading the Wise Package Studio Databases on page 43.
- Display a record of completed upgrade actions by clicking Show Log on the toolbar.
- Change the database settings.
  See Changing Database Settings on page 44.

Configuring the Wise Software Repository

➢ *Not available in Standard Edition.*

After you install Wise Package Studio, you must configure the Wise Software Repository. This consists of defining the following:

- The share point directory.
- The location of the various Wise Package Studio databases.
- The authentication method for each database.

To configure the Wise Software Repository

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.

If the Wise Software Repository has not been configured, the Create New Repository wizard starts.

If the wizard does not start, then on the Wise Repository Manager's File menu, click New.

2. Step through the Create New Repository wizard.

   See Repository Configuration Dialog Boxes on page 47.

Upgrading the Wise Package Studio Databases

➢ *Not available in Standard Edition.*

After you upgrade Wise Package Studio, you must upgrade the Wise Package Studio databases before you can use them with the new version. You perform this upgrade in the Wise Repository Manager.

The icon next to a database name in the left pane indicates that the database must be upgraded before it can be used. When the red X is removed from the icon, you can safely use that database with the current version of Wise Package Studio. This can occur before all upgrade actions have been completed. That is because the upgrade might contain background actions that do not have to be completed before users can begin using Wise Package Studio.

To review the changes that the upgrade will make, click an action in the **Actions** list. Information about what that action does is displayed in the **Description** and **Details** sections. The Upgrade to Baseline action upgrades databases earlier than version 5.6 to a baseline format, from which you can upgrade to 6.0 or any later version. (The baseline version that appears in the action's description does not necessarily correspond to any product version number.)

To upgrade the Wise Package Studio databases

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, do one of the following:

To upgrade all databases	On the Wise Repository Manager toolbar, click Upgrade.
To upgrade one database at a time	In the left pane, click a database name (in bold type). Then do one of the following: ● To run all uncompleted actions, click Run All. ● To run the upgrade actions individually, click the first uncompleted action in the right pane and click Run. (Uncompleted actions are indicated by a status of Pending.) Then repeat for subsequent actions. You cannot run the actions out of sequence.

3. If the share point directory must be updated, a prompt appears. Click through the prompts to perform the upgrade. When the share point directory upgrade finishes, the database upgrade begins.
4. If the database upgrade does not begin, then on the Wise Repository Manager toolbar, click Upgrade.

   To verify that the database upgrade is running, in the left pane, click the first database that contains the red X icon. As the upgrade runs, the status of the database actions in the right pane changes to Completed.
5. If your repository contains multiple Software Manager databases, or if one of the databases has a name other than the default name, register and upgrade those databases separately.

   See Registering a Database on page 44.
6. When the database upgrade finishes, a record of the upgrade actions is written to WiseAdmin.log. To display the most recent log, click Show Log on the toolbar.

Registering a Database

➢ *Not available in Standard Edition.*

Do this when you upgrade a repository that contains multiple Software Manager databases. During the Create New Repository wizard, you can specify only one Software Manager database. Therefore, the other Software Manager databases are not registered.

To register a database

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, in the left pane, click the Software Manager icon.
3. On the Wise Repository Manager toolbar, click Register.

   The Select Data Source dialog box appears. This is a standard Windows ODBC connection wizard, which lets you connect to a database through an ODBC data source.
4. Connect to the database. If you need help, ask your database administrator.

   The database appears in the left pane of the Wise Repository Manager.
5. Upgrade the database.

   See Upgrading the Wise Package Studio Databases on page 43.

Changing Database Settings

➢ *Not available in Standard Edition.*

You can change logon settings for a Wise Package Studio database from the Wise Repository Manager.

To change database settings

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, in the left pane, click a database name (in bold type).
3. Click Settings in the lower right of the right pane.

   The Change Database Settings wizard starts.
4. Complete the following dialog boxes:
   - Database Administrator Logon Information dialog box
   - Database Service Logon Information dialog box

   See Repository Configuration Dialog Boxes on page 47.

Creating Software Manager Databases

Not available in Standard Edition.

If you plan to import a large number of packages, you might use multiple Software Manager databases to reduce the size of the individual databases. Use the Wise Repository Manager to create Software Manager databases.

The ability to create a database is unavailable for the Workbench and Wise Services databases because a repository can contain only one of each of those databases.

This procedure assumes that you are familiar with creating databases and registering ODBC data sources. We do not offer technical support for SQL Server or SQL Server Express. If you need help, ask your database administrator.

To create a Software Manager database

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, in the left pane, right-click the Software Manager icon and select Create New Database.

   The Create New Database wizard starts.
3. Complete the following dialog boxes:
   - Database Identification dialog box
   - Database Administrator Logon Information dialog box
   - Creation Options dialog box

   See Repository Configuration Dialog Boxes on page 47.
4. To make this the default Software Manager database, right-click the database name in the left pane and select Set as Default. The default database name is displayed in bold type.

To provide an additional level of security, your database administrator can set permissions on tables in the new Software Manager database. This is not required, but is an option if you are concerned about unauthorized users changing database tables outside Wise Package Studio. For recommendations, see *Setting Database Security* in the Wise Package Studio Help.

Creating a New Repository

➢ *Not available in Standard Edition.*

When you create a new Wise Software Repository, all links to the old repository are broken, but the data is not deleted. The new repository becomes the default for all Wise Package Studio clients that connect to this server.

To create a new repository

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, on the File menu, click New.

   The Create New Repository wizard starts.
3. Complete the dialog boxes that appear. When you are asked to specify the share point directory, specify a share point path that resides under an existing location.

   See Repository Configuration Dialog Boxes on page 47.

The new databases are created and associated with the share point directory you specified.

To provide an additional level of security, your database administrator can set permissions on tables in the new databases. This is not required, but is an option if you are concerned about unauthorized users changing database tables outside Wise Package Studio. For recommendations, see *Setting Database Security* in the Wise Package Studio Help.

Opening a Repository

➢ *Not available in Standard Edition.*

In a large enterprise with multiple teams, each team might use a different Wise Software Repository. However, a Wise Package Studio server can be associated with only one active repository at a time. To change the default Wise Software Repository for a server installation, open a new repository.

Note
To change the default repository for a client installation, use the Workbench Preferences dialog box > Repository tab and specify the share point that is associated with an active Wise Software Repository. See *Setting Repository Preferences* in the Wise Package Studio Help.

If you upgrade from a previous version of Wise Package Studio that has multiple repositories, only one repository is upgraded. To upgrade the other repositories, you must open them and then upgrade them.

To open a repository

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, on the File menu, click New.

3. On the Wise Share Point Directory dialog box, specify the share point that is associated with the repository you are opening and click Next.
   - If the repository associated with that share point is at the current version, it opens in the left pane.
   - If the repository associated with that share point has not been upgraded, additional dialog boxes appear. Complete the dialog boxes to configure the repository, and then upgrade the database.

     See Repository Configuration Dialog Boxes on page 47 and Upgrading the Wise Package Studio Databases on page 43.

Repository Configuration Dialog Boxes

➢ *Not available in Standard Edition.*

All or some of the repository setup dialog boxes appear when you:

- Configure the repository as part of a new or upgrade installation.
- Change database settings.

  See Changing Database Settings on page 44
- Create a new Software Manager database.

  See Creating Software Manager Databases on page 45.
- Create a new repository.

  See Creating a New Repository on page 46.
- Open an existing repository that has not been upgraded.

  See Opening a Repository on page 46.

Wise Share Point Directory dialog box

The share point directory stores data that can be shared by team members.

Specify a shared network location. Your entry is converted to UNC notation. This directory is created and shared for you.

If you are creating a new repository after the initial installation, you must specify a share point path that is shared.

Valid paths for a new share point:

C:\Wise Share Point 2
\\Server\C$\Wise Share Point 2

Invalid path for a new share point: \\Server\Wise Share Point 2

Note
When you perform a server installation in a team environment, we recommend that you install the share point directory on the same physical drive that contains the Wise Package Studio application files.

File Share Name dialog box

The share point directory must be accessible by other computers. Enter the name of the file share to associate with the share point directory.

Database Identification dialog box

When you create a new repository, this dialog box appears for each database that you are defining. When you change a database's settings or add a Software Manager database, this dialog box appears for that specific database only.

- **Database Name**
  Specify the database name to create or connect to. If you are creating an additional database, use a unique name. Example: Software Manager Database 2.

  If you are upgrading from a previous version, do not accept the default name if the existing database has a different name. Enter the exact name of the existing database.

  Note
  If you are upgrading from a version earlier than 6.0, the Wise Services database is named Preflight. The upgrade process will not change this name.

- **Server**
  Select the database server for the database you specified.

Database Administrator Logon Information dialog box

When you create a new repository, this dialog box appears for each database that you are defining. When you change a database's settings or add a Software Manager database, this dialog box appears for that specific database only. For recommendations on which authentication method to use, see Authentication Best Practices on page 20.

Specify the logon information for a database administrator (DBA) for the selected database server:

- **Windows NT authentication using your current logon credentials**
  This is the preferred option for the Wise Services database, if you will use the Preflight Deployment feature.
- **SQL Server authentication using a DBA login and password**
  When you select this, enter a valid **Logon ID** and **Password**.

  Select this authentication method only if the target database server is configured to support SQL authentication.

Define how user names and passwords should be validated:

- **Windows NT authentication using the user's Windows logon credentials**
- **SQL Server authentication using a logon ID and password supplied by the user**
  When you select this, you must create users. Do this on the Create New Users dialog box. If users will log on with the DBA credentials, you do not have to create users.

  See Create New Users dialog box on page 49.

Database Service Logon Information dialog box

This dialog box appears only when you change an existing database's settings.

This account is used to access this database from various background processes (examples: package import, the upgrade process). The initial Wise Package Studio installation creates this account and generates a random password. If you prefer to

manage this password yourself, you can change it here. The password you enter will be encrypted.

Create New Users dialog box

This dialog box appears if you specify SQL Server authentication for users. The DBA logon information you entered earlier will be used to create database users that you specify on this dialog box for all databases that are being created (Workbench, Software Manager, Wise Services). These users will have modification privileges in all databases.

For each user, enter a **User Name** and **Password** and click Add.

Creation Options dialog box

If the database is not local or the database already exists (example: during an upgrade), this dialog box does not appear.

- **Import sample applications into Software Manager**
  Import packages for sample applications into the Software Manager database. This option lengthens configuration time.

Choosing a Revision Control System

➢ *Not available in Standard Edition.*

Wise Package Studio contains a Revision Control System, with functions available in Software Manager. Use Revision Control to:

- Protect packages from unauthorized changes and changes to multiple copies of a package at one time.
- Track changes to packages.

Revision Control performs standard source control functions, including: check in, check out, undo check out, and view and retrieve previous versions. Whereas other source control products protect source files used to compile packages, Revision Control protects packages.

For details, see *Revision Control* in the Software Manager Help.

You cannot use both the Wise Revision Control System and a third party source control product. Choose which system to use in the Wise Repository Manager.

To choose a revision control system

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, in the left pane, click the Revision Control System icon.
3. In the right pane:
   - To use the Revision Control System in Wise Package Studio:
     - Mark **Wise Revision Control System**.
     - Mark **Require Comments for Each Revision** to require users to enter comments each time they check a package back into Revision Control.

- To use a third-party source control product, mark **External Revision Control System**.

  The Source Control menu in Windows Installer Editor provides access to the external revision control system.

See also:

Starting the Wise Repository Manager on page 40

Setting the Wise Service Account

Not available in Standard Edition.

Wise Package Studio contains a service that lets users on client computers perform certain operations on the Wise Package Studio server. By processing operations on the server, you reduce the workload of the client computer and, if the packages and databases reside on the server, you improve the operation's performance.

This service requires a user account to access the information it needs to perform these operations. This user account is set up when Wise Package Studio is installed on the server. If the password for the user account changes, then this service will not work until the user's password is updated in the Wise Repository Manager.

To update the user account password

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, in the left pane, click the Wise Service icon.
3. In the right pane, change the password of the user account that is displayed.

See also:

Starting the Wise Repository Manager on page 40

Connecting to an External Workbench Database

Enterprise Management Server only.

With Enterprise Management Server, you can connect to an external Workbench database so that users can use its process templates. Do this to maintain master process templates in a single database and ensure that all users across your organization use the same standard, approved processes.

For configuration recommendations, see *Additional Wise Package Studio Configurations* in the *Getting Started Guide*.

Use Wise Repository Manager to connect to an external database by selecting the share point directory with which it is associated. When the connection is made, the process templates in that database become visible in Workbench, and the predefined process templates in the local database become unavailable. If the external share point is disconnected or otherwise unavailable, then the predefined process templates in the local repository become available. Process templates that users create in their local database are always available.

Requirements

- The external share point must exist.
- Your share point and the external share point must be at the same version.
- You must have access to the server on which the external Workbench database is stored.
- You cannot select your current share point.

If any of these conditions change (example: the external share point's server becomes unavailable), an icon appears in the left pane of Wise Repository Manager, and error information appears in the right pane.

To connect to an external database

1. On the Windows Start menu, click Programs > Altiris > Wise Package Studio > Wise Repository Manager.
2. In the Wise Repository Manager, in the left pane, click the External Repository icon.
3. In the right pane, specify the share point that is associated with the external database.

Chapter 4
Tutorial

This chapter includes the following topics:

- *About This Tutorial* on page 52
- *Before You Start* on page 53
- *Import a Sample Package into Software Manager* on page 53
- *Create a New Project* on page 55
- *Create the Package with SetupCapture* on page 56
- *Edit the Package in Windows Installer Editor* on page 60
- *Validate the Package* on page 63
- *Test the Package Without Test Expert* on page 64
- *Test the Package With Test Expert* on page 65
- *Distribute the Package* on page 67
- *Import the Package into Software Manager* on page 68
- *Resolve Conflicts with ConflictManager* on page 68
- *Make the Package Available* on page 70
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- *Remove Tutorial Packages from Software Manager* on page 72

About This Tutorial

> *Professional Edition.*
> This tutorial uses features that are not available in the Standard Edition of Wise Package Studio.

This tutorial guides you through the process of repackaging an application into Windows Installer format. You use a sample application named QuickFacts, which is included with Wise Package Studio, to provide you with a realistic practice scenario. QuickFacts is a utility that displays facts and bitmaps. It was created to illustrate the repackaging process.

In this tutorial, you will:

- Create a new Wise Package Studio project.
- Use SetupCapture to recreate the existing installation in Windows Installer format.
- Customize the installation package in Windows Installer Editor.
- Verify that the package complies with standards.
- Test the repackaged installation.

- Detect and resolve conflicts in ConflictManager.
- Deploy the application to end users.

If you are using Enterprise Management Server, security settings can limit access to some features. See your manager or system administrator if a feature described in this tutorial is not available.

Note
This tutorial does not cover details of the Wise Package Studio tools. Press F1 on any window or dialog box for context-sensitive help.

Before You Start

- Make sure you are using the Professional Edition. This tutorial uses features that are not available in the Standard Edition.
- Obtain Wise Package Studio logon information.
  - If you are using an evaluation version of Wise Package Studio, you can log on as Admin and leave the password blank.
  - If you are using a production version, ask your manager or Wise Package Studio administrator for logon information.
- Close other applications before starting this tutorial. During the repackaging process, you capture the actions performed by an installation; it is important to close all applications other than Wise Package Studio to avoid capturing the activities of other applications and processes.
- This tutorial assumes that you are installing the sample application, QuickFacts, on your computer for the first time. If you have installed QuickFacts on your computer, uninstall it and remove any files and registry keys related to it. Files left from previous installations can cause your results to deviate from the information presented in this tutorial.

Import a Sample Package into Software Manager

In this procedure, you import a sample package into the Software Manager database. Later in the tutorial, you will detect conflicts between this sample package and the new package you create.

Frequently, you will need to import a package into the Software Manager database without repackaging. You might do this with a package that has already been approved and deployed so that all packages that have been installed throughout your company are in the Software Manager database.

To import a sample package into Software Manager

1. Select Start menu > Programs > Altiris > Wise Package Studio > Wise Package Studio.

   The Wise Package Studio Logon dialog box appears.

2. Enter your logon information and click OK.

   Wise Package Studio opens.

3. Click the Tools tab. At the top of the Tools tab, double-click Software Manager.

Software Manager opens.

4. Select Packages menu > Import.

   The Import Type page appears.

5. Mark **Import a single file into the Software Manager database** and complete the page:

   - **File**
     Browse to the Tutorial subdirectory under the Wise Package Studio directory and open Sample Conflict.msi.
   - **Distribute source files to the share point directory**
     Mark this check box to copy the package's source files to the share point directory.
   - **Overwrite existing application and package**
     Mark this check box to overwrite any package that is already in the database with the same application and package names.
   - **Do not modify the original package**
     Normally, when you import a Windows Installer installation (.MSI or .WSI), the original installation file is updated with Wise-specific version information that speeds future subscriptions and imports of the installation. Mark this to prevent the original file from being changed.
   - **Perform this operation on the Wise Package Studio Server**
     Clear this check box.
   - **Add to Revision Control**
     Clear this check box.
   - **Detect conflicts during package import**
     Clear this check box.

6. Click Next on the Import Type page.

   The Package Details page appears.

7. Complete the Package Details page:

   - **Application Name**
     Enter Sample Conflict. This identifies the application in the Software Manager database.
   - **Package Name**
     Enter Conflict 1.0. Typically, you use the application name plus specific version information as the package name.
   - **Use Transactions for Import**
     Leave this check box cleared.

8. Click Next on the Package Details page.

   The Transforms and Patches page appears.

9. Click Finish.

   The Wise Task Manager appears, then closes.

   The package you selected is imported into the Software Manager database. It appears on the Applications/Packages pane in Software Manager.

10. Close Software Manager.

The right pane in Workbench reappears.

You have finished importing a package into the Software Manager database. Next, you will create a new project in Wise Package Studio.

Create a New Project

In this procedure, you create a new project named QuickFacts in Wise Package Studio. The project defines the name and location of files, as well as the project name and other information. You also assign a repackaging process to the project. This process contains tasks that you will complete as you follow this tutorial. The tasks guide you through the basic steps of repackaging. All tasks automatically access the appropriate project files.

Note
Follow the instructions exactly as presented, otherwise your results can deviate from the information presented in this tutorial.

To create a new project

1. If Wise Package Studio is not open, open it and log on.
2. Select File menu > New Project.

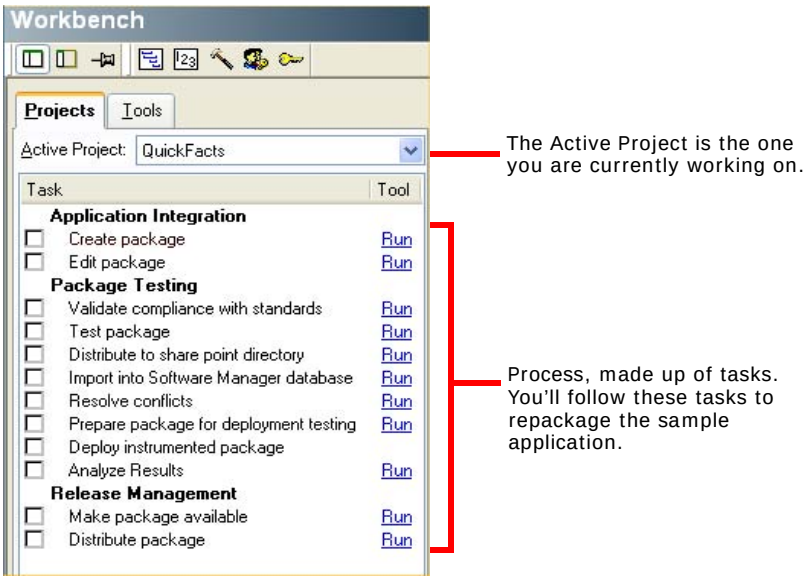
   The Project Setup dialog box appears. A new project appears in the Project list on the left and is selected by default.
3. Complete the right pane:
   - **Project Name**
     Enter: QuickFacts
   - **Project Directory**
     Leave the default.
   - **Status**
     Leave the default of Open.
   - **Product Vendor**
     Select **Altiris**.
   - **Application Name**
     Enter: QuickFacts
   - **Package Name**
     Enter: QuickFacts version 3.0
   - **File Name**
     If a default file name does not appear, type QuickFacts
   - **Vendor Package**

     Do not type in this field. Instead, click the button next to the field. Navigate to the Tutorial subdirectory under the Wise Package Studio directory and open QuickFactsInstall.exe.
   - **Project Owner**
     This field appears with Enterprise Management Server only. Leave the default.

- **Process**
  Select **Repackage for Windows Installer**. The Repackage for Windows Installer process contains the tasks for repackaging an installation into a Windows Installer package.

4. On the Project Setup dialog box, click Close.
5. If the Projects tab is not displayed in the left pane of Wise Package Studio, click it.
6. From **Active Project**, select **QuickFacts**.

   The Projects tab displays the process you'll follow to repackage the QuickFacts application. This process consists of a set of tasks that appear in the **Task** list.



Note
If a task is disabled, it means that you do not have a license to use the tool associated with it. With Enterprise Management Server, it might also mean that you do not have permission to use the tool associated with the task or have not been assigned as the task's owner.

You have finished creating a new project. Next, you will create a new package by capturing the QuickFacts installation.

Create the Package with SetupCapture

In this procedure, you repackage the existing QuickFacts installation program, which is the first step in the Application Integration phase. The Create package task runs SetupCapture, which records an installation and recreates it in Windows Installer Editor. SetupCapture also copies the directory structure and source files of the installation to the Projects\QuickFacts subdirectory in your share point directory. The repackaged installation that results from this SetupCapture will reference the source files in your share point directory rather than those installed in the Program Files directory.

Before you follow this procedure, you must have created the project.

See *Create a New Project* on page 55.

Note
Normally, you perform SetupCapture on a clean machine, which represents the base computer for your organization, and you restart during the capture. However, in this tutorial, the installation you are capturing does not require a clean machine or a restart.

To create the package with SetupCapture

1. Close all applications other than Wise Package Studio. This includes background applications that might create or change files on the computer. (Example: Norton AntiVirus.)
2. In Wise Package Studio, click the Projects tab. **QuickFacts** should appear in the **Active Project** drop-down list.
3. Click the Run link next to the Create package task.

   The Welcome page appears.
4. Click Settings.

   The SetupCapture Configuration dialog box appears.
5. Set .TMP files to be excluded.
   a. Click the File and Folder Exclusions tab.
   b. If a message about file exclusions located under your user profile appears, click Yes.
   c. Click Add on the File and Folder Exclusions tab.
   d. The File Exclude dialog box appears.
   e. Leave the **Directory** field blank.
   f. In **File / Wildcard**, enter *.tmp and click OK on the File Exclude dialog box.

      This adds *.tmp to the list of files that SetupCapture will ignore when it captures an installation.
6. On the Directories to Watch tab, note the drive letter that will be watched so that you can install QuickFacts to this drive later in the tutorial.
7. Click OK on the SetupCapture Configuration dialog box.

   The Welcome page reappears.
8. Click Next on the Welcome page.

   The Capture Methodology page appears.
9. Complete the Capture Methodology page:
   - Mark **Snapshot**.
   - Clear **Use SmartMonitor in conjunction with Snapshot**.
   - Click Next.

   Note
   Snapshot comparisons determine the difference between a “before” snapshot of the system and an “after” snapshot to determine what happened during the installation.

   What happens next depends on whether SetupCapture previously scanned your computer.

- If SetupCapture previously scanned your computer, the Initial Scan page appears.
- If SetupCapture did not previously scanned your computer, SetupCapture skips the Initial Scan page.

10. If the Initial Scan page appears, mark **Rerun the initial scan** and click Next.

    The Begin Installation Capture page appears.

11. Click Next on the Begin Installation Capture page.

    SetupCapture scans your computer; this might take several minutes. When the scan finishes, the Execute Installation page appears. The vendor package that you specified in the QuickFacts project appears in the **.EXE Name** field. This is the installation that you will capture.

12. Click Execute on the Execute Installation page.

    The QuickFacts Setup program opens in front of SetupCapture.

13. Step through the QuickFacts Setup program, accepting all default settings.

    This installs a sample application named QuickFacts on your computer.

14. When the QuickFacts installation finishes, click Next on the Execute Installation page.

    The End Installation Capture page appears.

15. Click Next on the End Installation Capture page.

    SetupCapture scans your computer for a second time to determine what changed. This might take several minutes. When the scan finishes, the SetupCapture Inclusions page appears, which lists all the files, registry entries, shortcuts, and .INI file changes that will be included in the repackaged installation.

    Note
    Typically, you exclude from your installation those files and registry entries that are not applicable to all computers, or are not applicable to Windows Installer technology. Additional files that are not related to QuickFacts might be included in the list. Examples: temporary Internet files, cookies, and files that have to do with software that runs constantly in the background, such as virus protection software.

16. Exclude all files except the QuickFacts files listed below.

    License.txt
    QckFacts.exe
    ReadMe.txt
    Birds.bmp
    Birds.qft
    Cats.bmp
    Cats.qft
    Dogs.bmp
    Dogs.qft
    QuickFacts.cnt
    QuickFacts.hlp
    QFGUITAM.dll

17. Select **Registry keys** from **Inclusion Type** and exclude all registry keys except:

    - Those with QuickFacts or QckFacts in their Key name.

- Registry keys for file associations, which vary by operating system. The list should include registry keys with the following ValueNames:

  CaptionFontName
  FactsBkColorBlue
  FactsBkColorGreen
  FactsBkColorRed
  TitleFontSize
  TitleText

Note
When you become familiar with your particular operating system environment, you will more easily know what files and registry entries are extraneous to an application. You can also run SetupCapture Configuration to build an exclusion list to further reduce extraneous files and registry entries.

18. Click Next on the SetupCapture Inclusions page.

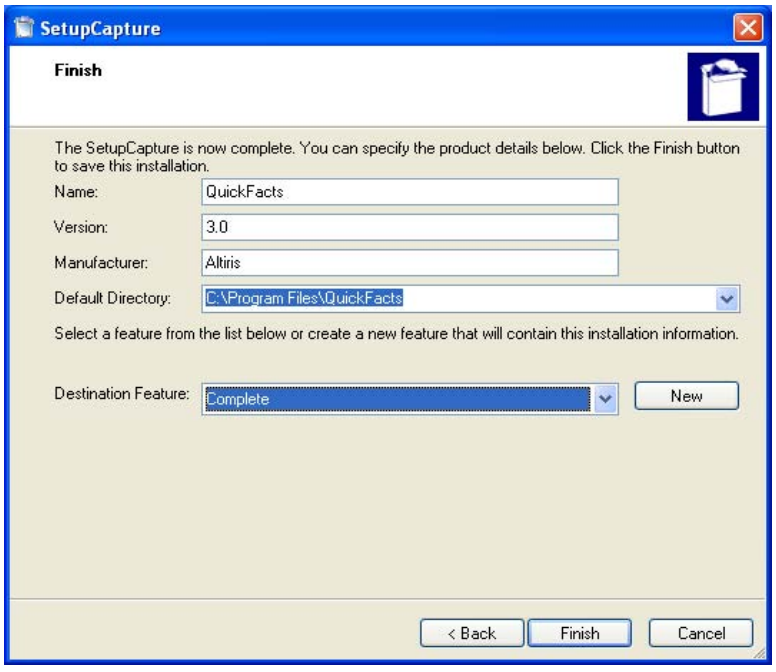
    The SetupCapture Exclusions page appears, which shows the registry keys that will be excluded from the repackaged installation.

    Change **Exclusion Type** to **Files** to see the files that are excluded. There might be additional files and registry keys other than those you excluded if you have previously run/configured SetupCapture or if they are in the default SetupCapture exclusion list. Example: The files INSTALL.LOG and Unwise.exe appear because they are in the default SetupCapture exclusion list.

19. Click Next on the SetupCapture Exclusions page.

    The Finish page appears.

20. The fields should appear exactly as shown below, if the Program Files directory is located on your C: drive. If the fields do not appear as below, edit them.



21. Click Finish.

22. If the Files in Repository dialog box appears, click OK.

This saves the captured installation in Windows Installer format and copies the directory structure and source files of the installation to the Projects\QuickFacts subdirectory of your share point directory. This lets you create and edit your QuickFacts.msi package using relative paths, independent of the original installation.

You have finished capturing the QuickFacts installation. On the Projects tab, the check box next to the Create package task is marked to indicate that the task is complete. Next, you will customize the QuickFacts installation.

Edit the Package in Windows Installer Editor

In this procedure, you open the QuickFacts installation package you captured in the previous procedure, and then customize it for your organization. The Edit Package task runs Windows Installer Editor, which is an installation development environment for Windows Installer.

Windows Installer Editor has three views: Installation Expert, MSI Script, and Setup Editor. Each view provides a different development environment. In this tutorial, you use various pages in Installation Expert. Each page lets you review and edit a specific aspect of your installation.

Before you follow this procedure, you must have created the package.

See *Create the Package with SetupCapture* on page 56.

To edit the package in Windows Installer Editor

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Edit package task.

   The repackaged QuickFacts installation (QuickFacts.wsi) opens in Windows Installer Editor.
3. Make sure you are in Installation Expert by clicking the Installation Expert tab at the lower left of the window.

   Note
   Along the left side of the window are page group headings (example: Project Definition), below which appear linked page names. Click a page group name (example: Project Definition) to expand or collapse it. Click the page names below the page group names to go to a particular page.
4. In the Project Definition page group, click Product Details.

   The Product Details page appears, which contains the installation's meta data. Because you entered much of the required information during SetupCapture, most of the fields are populated.

   Enter the information that is not populated:

   - **Application**
     Enter: QuickFacts
   - **Package**
     Enter: QuickFacts version 3.0

- **Product Type**
  (Read-only)
- **Product Name**
  QuickFacts
- **Manufacturer**
  Altiris.
- **Version**
  3.0
- **Default Directory**
  Program Files\QuickFacts
- **Package Path**
  (Read-only)
- **Product Code**
  Leave the default. This is a unique code, called a GUID, that Windows Installer uses to identify the product.
- **Target Platform**
  (Read-only.)
- **Application Type**
  Make sure this is set to **Win32 (non .NET)**.
- **Installation Target**
  Make sure this is set to **Windows-based desktop/server PC**.
- **Description**
  (Optional.) Enter: This is a sample application

5. (Optional.) In the Project Definition page group, complete the General Information page and the Add/Remove Programs page. To display context-sensitive help on these or any other Installation Expert pages, press F1.

   The information on the General Information page appears if an end user right-clicks on the installation .MSI in Windows Explorer and selects Properties. The information on the Add/Remove Programs page appears in the Add/Remove control panel for QuickFacts (Windows 2000 or later only).

6. In the Project Definition page group, click Features.

   The Features page appears.

7. Expand the Complete feature tree.

   A subfeature, named Feature, appears under the Complete feature. The QckFacts.exe file and its advertised shortcut are isolated in a separate feature to avoid a common performance issue related to Windows Installer repair functionality. The issue can cause repeated attempts to repair the application. Isolating the advertised .EXE and its shortcut fixes the problem. By default, the feature named Feature is hidden from the end user.

8. On the Features page, rename Feature to MainApp:

   a. Double-click the word Feature in the feature tree.

   b. The Feature Details dialog box appears.

   c. In both the **Name** and **Title** fields, type MainApp

   d. Leave the defaults in the remaining fields.

e. Click OK on the Feature Details dialog box.

9. In the Feature Details page group, click Files.

   The Files page appears and the files for the MainApp feature are displayed. To see the files for the Complete feature, select **Complete** from the **Current Feature** drop-down list at the top of the page. The **Current Feature** drop-down list indicates the number of files in each feature. In the lower-left list box, expand the QuickFacts folder to see the directories for that feature. The files in each directory are displayed in the lower-right list box.

10. (Optional.) Review the shortcuts and registry entries by selecting the Shortcuts and Registry pages in the Feature Details page group. Only the shortcuts or registry entries for the current feature appear. If no entries appear, change the current feature by selecting the feature name in the **Current Feature** drop-down list at the top of the page.

11. In the Target System page group, click System Requirements. You might have to scroll down to see the Target System page group.

    The System Requirements page appears, where you change the system requirements of this installation:

    a. Double-click the **Windows Version** requirement.

    b. On the Minimum System Requirements dialog box, select **Windows XP** from **Windows Version**. This allows the program to install on Windows XP or later.

    c. In **Message Text**, enter:

       You must have Windows XP or later to run this installation.

    d. Click OK on the Minimum System Requirements dialog box.

    e. Leave the **Windows NT** requirement set to **All Versions**, which includes Windows NT 4.0, Windows 2000, and later.

12. In the User Interface page group, click Dialogs.

    The Dialogs page appears, where you specify which dialog boxes appear, and you specify a ReadMe file to display:

    a. Turn off the User Information dialog box by clearing its check box.

    b. Turn on the Readme dialog box by marking its check box.

    c. Select the Readme dialog box and click Import Text, which is to the right of the dialog box preview.

    d. On the Open dialog box, navigate to *share point*\Projects\QuickFacts\Program Files\QuickFacts, where *share point* is the path to your share point directory. This is the location of the source files for this package, which were copied during SetupCapture. Change the **Files of type** drop-down list to **Text files (.txt)**. Open the ReadMe.txt file.

       The ReadMe text appears in the Readme Information dialog box preview and will appear in this dialog box during installation.

13. Save the installation by selecting File menu > Save.

14. Close Windows Installer Editor.

You have finished customizing the QuickFacts installation, which completes the Application Integration phase of the Repackaging for Windows Installer process. On the

Projects tab, the check box next to the Edit package task is marked to indicate that the task is complete. Next, you will validate the package you created.

Validate the Package

In this procedure, you validate the QuickFacts package, which is the first step in the Package Testing phase. The Validate compliance with standards task runs Package Validation, which verifies that the package complies with the Microsoft Application Specification for Windows 2000.

Before you follow this procedure, you must have edited the package.

See *Edit the Package in Windows Installer Editor* on page 60.

To validate the package

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Validate compliance with standards task.

   Dialog boxes appear briefly and the .WSI is compiled into a .MSI. The Welcome page for the Package Validation tool appears, listing the predefined validation tests that can be performed. To see a description of each test, click the test name, and the description appears at the right of the page.
3. Mark **Windows Installer SDK Internal Consistency** only. If necessary, clear all other check boxes.
4. Click Next.

   The test runs. This might take a few minutes. When the test finishes, the View / Correct page appears, which lists all the possible problems detected.

   Normally, no errors appear for QuickFacts, although for more complex installations, errors are more likely to appear. If there were errors and if the Correct button became enabled when the error was selected, you could click Correct to resolve the problem. Otherwise, you would open the installation in Windows Installer Editor, fix the error, and recompile. Errors are documented in the Windows Installer SDK Help. Start with the topic *Internal Consistency Evaluators - ICEs*.
5. Click Finish on the View / Correct page.

You have finished validating the QuickFacts installation package. On the Projects tab, the check box next to the Validate compliance with standards task is marked to indicate that the task is complete. Next, you will test the package.

- If you have Test Expert, which comes with the Quality Assurance module, you will use it to test.

  See *Test the Package With Test Expert* on page 65.
- Otherwise, test the package without Test Expert.

  See *Test the Package Without Test Expert*.

Test the Package Without Test Expert

Note
Follow this procedure if you don't have the Quality Assurance module. If you have the Quality Assurance module, skip this procedure and test the package without Test Expert.

See *Test the Package With Test Expert* on page 65.

In this procedure, you test the QuickFacts package. The Test package task installs the QuickFacts application on your computer. Then you perform tests to verify that the application works as expected.

Normally, a package would require more thorough testing. To test in a corporate environment, you would copy the finished .MSI file to a file server or other media, such as a CD. Then you would install the application on computers that are representative of the target computers and test it.

Before you follow this procedure, you must have validated the package.

See *Validate the Package* on page 63.

To test the package without Test Expert

1. Use Add/Remove Programs from Control Panel to uninstall the copy of QuickFacts that you installed during the first part of this tutorial.

   You uninstall because during this procedure, you install and test the repackaged version of QuickFacts. Removing the original QuickFacts ensures that you test only the repackaged installation.

2. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
3. Click the Run link next to the Test package task. The repackaged QuickFacts installation begins.
4. Step through the installation, accepting all the defaults.
5. After the installation finishes, open QuickFacts.
6. To check the QuickFacts installation, verify that its:
   - Shortcuts were created
   - Registry entries were created
   - Files were installed
7. To test the QuickFacts application, use every function.
   - In the **Select an item to see facts** list, select all three items, one at a time.
   - Select Help menu > Help Contents.
   - Select Help menu > QuickFacts Readme.
   - Click About in the lower right of the QuickFacts dialog box.
8. Unlike with other tasks, the check box next to the Test package task is not marked, because additional testing might be necessary (example: testing on a clean machine). In this tutorial, you will not perform additional testing. On the Projects tab, mark the check box next to the Test Package task.

You have finished testing the package installation.

Next, you will distribute the package to the share point directory. Skip the next section, which is applicable only if you have the Quality Assurance module.

See *Distribute the Package* on page 67.

Test the Package With Test Expert

➢ *Quality Assurance module only.*
If you don't have the Quality Assurance module, skip this section and test the package without Test Expert.

See *Test the Package Without Test Expert* on page 64.

In this procedure, you perform integration and acceptance testing of the QuickFacts package. The Test package task runs Test Expert, which generates a master test plan based on the contents of a package and guides you through the execution of various test cases. This makes the testing process more efficient and focused, eliminating the random approach often used in an ad hoc testing environment. Test Expert performs analysis on .MSI-based installations only.

Before you follow this procedure, you must have validated the package.

See *Validate the Package* on page 63.

Note
Under normal testing conditions, Test Expert requires a clean machine to ensure the integrity of the repackaged installation.

To test the package with Test Expert

1. Use Add/Remove Programs from Control Panel to uninstall the copy of QuickFacts that you installed during the first part of this tutorial.

   You uninstall because during this procedure, you install and test the repackaged version of QuickFacts. Removing the original QuickFacts ensures that you test only the repackaged installation.

2. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.

3. Close all applications other than Wise Package Studio, including background applications that might create or change files on the computer.

4. Click the Run link next to the Test package task.

   Dialog boxes appear briefly and the package is recompiled. The Test Expert window appears, with QuickFacts.msi opened.

   Note
   If Test Expert does not open, it means you don't have the Quality Assurance module. Test the package without Test Expert.

   See *Test the Package Without Test Expert* on page 64.

   When you open a package in Test Expert, the Master Test Plan for that package is displayed. Each time you open the package, the package is read and test cases are generated based on the contents of the package. In addition to the Master Test Plan, you can add user-defined test cases to fully test the package for the requirements of

your organization. In this tutorial, you perform only two of the test cases provided in the Master Test Plan.

5. In the Installation Tests section in the left pane, select the Verify Installation test case.

   The Verify Installation page appears in the right pane. This test case ensures that the installation runs without errors by installing the QuickFacts package you created during SetupCapture.

6. Click Install on the toolbar at the top of the window. Then, in the Welcome page, click Cancel to skip the Machine Capture.

   Machine Capture is necessary only if you plan to perform Uninstall Tests, which are skipped in this tutorial.

   The QuickFacts Setup program opens in front of Test Expert.

7. In the QuickFacts Setup program, step through the installation, accepting all default settings. This installs the QuickFacts package.

8. If the QuickFacts installation ran without errors, from **Status of Test Case**, select **Passed**. A check mark icon appears next to the Verify Installation test case.

9. In the Application Execution Tests section, select the File Coverage test case.

   A list of all files accessed by the QuickFacts application appears on the All Test Items tab in the right pane. The File Coverage test case indicates which installed files are accessed as the application is run.

10. Click Run on the toolbar.

    The Run Application Execution Tests dialog box appears.

11. In the **File to Run** list, select **QckFacts.exe** and click OK.

    The QuickFacts application opens and the Application Monitor window appears.

    Note
    You must leave the Application Monitor window open while you exercise the functionality of the application because your system is monitored only when it is open. Move or minimize it if necessary.

12. To test the QuickFacts application, use every function.

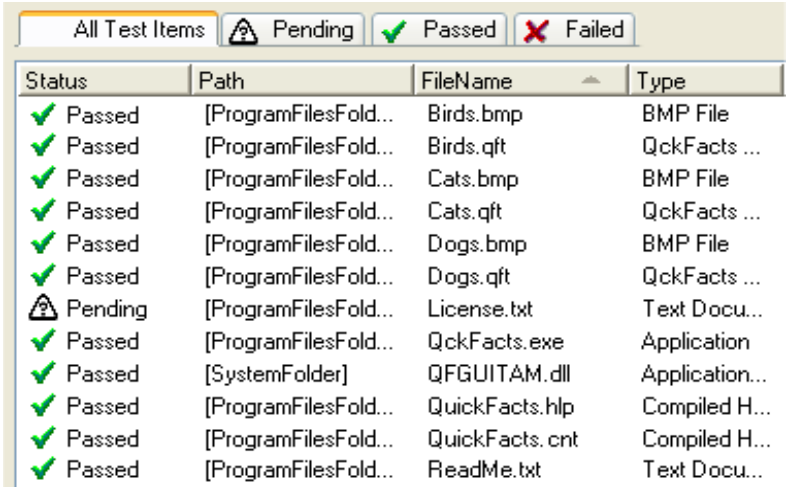
    - In the **Select an item to see facts** list, select all three items, one at a time.
    - Select Help menu > Help Contents.
    - Select Help menu > QuickFacts Readme.
    - Click About in the lower right of the QuickFacts dialog box.

    As files are accessed, the Application Monitor window is updated. When you finish testing, the File Coverage graph in Application Monitor indicates the percentage of the files that were accessed.

    Note
    Some files are not accessed by an application during normal use. Example: In the QuickFacts application, License.txt is not accessed during normal application execution.

13. To return to Test Expert, click Exit in the QuickFacts application and close the QuickFacts ReadMe.
14. Close the Application Monitor window. Monitoring does not stop until it is closed.

    On the All Test Items tab, all files except License.txt should display the **Passed** status. Because the License.txt file is not accessed during normal application execution, it has a **Pending** status. The test items should look like this:



15. To set the status of the License.txt file to **Passed**, double-click the License.txt file on the All Test Items tab.

    The Test Item Details dialog box appears.

    a. From **Status**, select **Passed**.

    b. In **Test Details**, type:

       This file is not accessed during normal application execution.

    c. Click OK.

16. On the File Coverage page, from **Status of Test Case**, select **Passed**.

    Note
    You might notice that the bold type is removed from all test case names under Application Execution Tests, which indicates they have been run. This is because all Application Execution Tests are run simultaneously.

17. Close Test Expert.

For the purposes of this tutorial, you have finished testing the package. Normally, you would execute all test cases. On the Projects tab, the check box next to the Test package task is marked to indicate that the task is complete. Next, you will distribute the package to the share point directory.

Distribute the Package

In this procedure, you distribute the QuickFacts package to the share point directory so that it can be imported into the Software Manager database. The Distribute to share point directory task runs Package Distribution silently, which places the package into a queue for later import by Software Manager.

Before you follow this procedure, you must have tested the package.

See *Test the Package Without Test Expert* on page 64 or *Test the Package With Test Expert* on page 65.

To distribute the package

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Distribute to share point directory task.

   A dialog box appears briefly and the package is copied to the share point directory.

You have finished distributing the package to the share point directory. On the Projects tab, the check box next to the Distribute to share point directory task is marked to indicate that the task is complete. Next, you will import the package into the Software Manager database.

Import the Package into Software Manager

In this procedure, you import the QuickFacts package into the Software Manager database. The Import into Software Manager database task runs Software Manager silently, which imports the package. Software Manager administers the information stored in the Software Manager database.

Before you follow this procedure, you must have distributed the package.

See *Distribute the Package* on page 67.

To import the Package into Software Manager

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Import into Software Manager database task.

   A dialog box appears briefly and the package is imported into the Software Manager database.

You have finished importing the QuickFacts package into the Software Manager database. On the Projects tab, the check box next to the Import into Software Manager database task is marked to indicate that the task is complete. Next, you will detect and resolve software conflicts.

Resolve Conflicts with ConflictManager

In this procedure, you compare the QuickFacts package to the Sample Conflict package you imported earlier. The Resolve conflicts task opens ConflictManager, which detects and resolves software conflicts before you deploy applications throughout your organization.

By default, conflict detection is set to run automatically when you import a package into the Software Manager database. This is controlled by the **Detect conflicts during package import** check box in Conflict Settings. You can override this setting for specific packages during package import, by marking or clearing the **Detect conflicts during package import** check box on the Import Type page.

Because conflict detection was run during package import, you do not have to detect conflicts in this step.

Before you follow this procedure, you must have imported the package into Software Manager.

See *Import the Package into Software Manager* on page 68.

To resolve conflicts with ConflictManager

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Resolve conflicts task, which starts ConflictManager.

   If the Detect Conflicts dialog box appears, click Cancel.
3. Expand the QuickFacts tree in the Applications/Packages pane and select the QuickFacts version 3.0 package.

   In the Conflict List pane, a conflict for QFGUITAM.dll appears. The red exclamation point next to it indicates that it is classified as an error. If warnings existed, which are not as serious as errors, they would appear in this list with yellow question mark icons.
4. To fix the conflict, select Conflicts menu > Resolve.

   The Welcome page of the Resolve wizard appears.
5. From **Application**, select **QuickFacts**.

   QuickFacts version 3.0 appears in the **Package** field.
6. From **Isolation method**, select **Isolated Components (Windows 98 SE/Me/2000/XP/2003)**.

   Isolating a conflict means that each application will use its own version of the conflicting file. The files will be stored in different directories, and will be managed by Windows Installer.
7. Click Next.

   The File Conflicts page appears. The upper list box contains the name and information of the file in your package that has conflicts (QFGUITAM.dll). The lower list box contains the package and file that QFGUITAM.dll conflicts with.
8. Select QFGUITAM.dll in the upper list box and click Move on the right of the File Conflicts page.

   The exclamation point becomes white to indicate that the problem has been fixed. Because you selected **Isolated Components** as the **Isolation Method**, the Move button isolates the file so that each package that uses QFGUITAM.DLL will use its own version. This means that a copy of QFGUITAM.DLL will be installed into the QuickFacts directory, and QuickFacts will reference its own copy of the .DLL file.
9. Click Next on the File Conflicts page.

   The File Conflicts in Registry page appears, which should be empty.
10. Click Finish.

    In the Conflict List pane, a yellow question mark icon appears next to QFGUITAM.dll. The file conflict has been resolved by isolating the file in different directories but is still listed as a warning. This is because two installation packages install a non-16-bit file with the same file name but different file information (file version number or

date/time) to different directories. Also, the File Conflicts bar graph in the Summary pane indicates one warning.

11. To view only errors (red exclamation points) in ConflictManager, not warnings (yellow question marks), do the following:

    a. Select Conflicts menu > Filter to display the Filters dialog box.

    b. In the Conflict Types to Display section, clear **Warnings**.

    c. Click OK.

    The conflict filter is globally set to show only errors in the Conflict List pane.

12. Select Packages menu > Export and Recompile.

    The Export Changed Packages and Recompile dialog box appears, listing the QuickFacts package.

13. Mark the check box for the QuickFacts package. Also, mark **Compile the packages after export** and click OK.

    Several progress dialog boxes appear briefly during the export.

14. When progress dialog boxes stop appearing, close ConflictManager.

    The file change is made in the QuickFacts.wsi file with which you've been working, which is in the Projects\QuickFacts subdirectory of the share point directory. It is also compiled to a file named QuickFacts.msi. The conflict that it had with the Sample Conflict package is now resolved because each package will use its own version of the .DLL file instead of one .DLL overwriting the other .DLL.

You have finished resolving conflicts. On the Projects tab, the check box next to the Resolve conflicts task is marked to indicate that the task is complete.

If you don't have the Quality Assurance module, all the tasks in the Package Testing phase of the Repackaging for Windows Installer process are complete. If you have the Quality Assurance module, the Package Testing phase contains three additional tasks: Prepare package for deployment, Deploy instrumented package, and Analyze Results. This tutorial skips these tasks because they require integration with other computers.

Next, you make the package available for distribution to end users.

Make the Package Available

In this procedure, you update the status of the QuickFacts package to Available, which is the first step in the Release Management phase. The Make Package Available task runs Software Manager silently, which updates the status of the package and copies the package to the Available Packages subdirectory in the share point directory.

The Available Packages directory provides a centralized location for storing all of your packages that are complete and available for deployment, and keeping them separate from packages that are still in development.

Before you follow this procedure, you must have resolved conflicts.

See *Resolve Conflicts with ConflictManager* on page 68.

To make the package available

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.

2. Click the Run link next to the Make Package Available task.

   A dialog box appears briefly. The package status is updated to Available, and the package is copied to the Available Packages directory in the share point directory and marked as Read-only.

You have finished making the package available for distribution to end users. On the Projects tab, the check box next to the Make package available task is marked to indicate that the task is complete. Next, you will distribute the package to end users.

Distribute the Package

In this procedure, you distribute the QuickFacts package to a location that can be accessed by end users. Normally, this would be a shared network drive or a distribution system. In this tutorial, you distribute it to your local drive. The Distribute package task runs Package Distribution.

After the package is distributed to end users, the Repackage for Windows Installer process is complete.

Before you follow this procedure, you must have made the package available.

See *Make the Package Available* on page 70.

To distribute the package

1. Make sure you are in Wise Package Studio with the Projects tab selected and **QuickFacts** selected in the **Active Project** drop-down list.
2. Click the Run link next to the Distribute Package task. Dialog boxes appear briefly and the package is recompiled.

   The Distribution Method page of the Package Distribution tool appears. Options are available based on the type of package and the distribution systems available on the computer.
3. In the Other Distribution Options section, mark the **Network** and **Installation** options and click Next.

   The Network Directory page appears.
4. In **Network Directory**, specify a directory in which to save the installation. Typically, this would be a shared network drive available to users. In this tutorial, specify a directory on your local drive.
5. To save the installation with a name other than its current name, enter the new name in **Destination File Name**.
6. Click Finish.

   The package is distributed to the directory you specified.

On the Projects tab, the check box next to the Distribute Package task is marked to indicate that the task is complete.

You have completed the application repackaging process from capturing an application to distributing a package to end users. By following this process, you have ensured that your application is ready for deployment, installation, use, and maintenance within the context of the infrastructure of your organization.

(Optional.) If you are working in your company's production database, you should remove the test applications Sample Conflict and QuickFacts from the database.

See *Remove Tutorial Packages from Software Manager*.

Remove Tutorial Packages from Software Manager

To ensure that your Software Manager database contains only production packages, remove the QuickFacts and Sample Conflict packages.

To remove tutorial packages from Software Manager

1. In Wise Package Studio, click the Tools tab. At the top of the Tools tab, double-click Software Manager.

   Software Manager opens.

2. Select Packages menu > Delete.

   The Delete Package dialog box appears.

3. Select both the Sample Conflict and QuickFacts packages.

4. To delete the package's source files from the share point directory, mark the check box at the bottom of the dialog box.

5. Click OK.

   The Sample Conflict and QuickFacts packages are deleted from the database.

6. Close Software Manager and Wise Package Studio.

You have completed this tutorial.

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